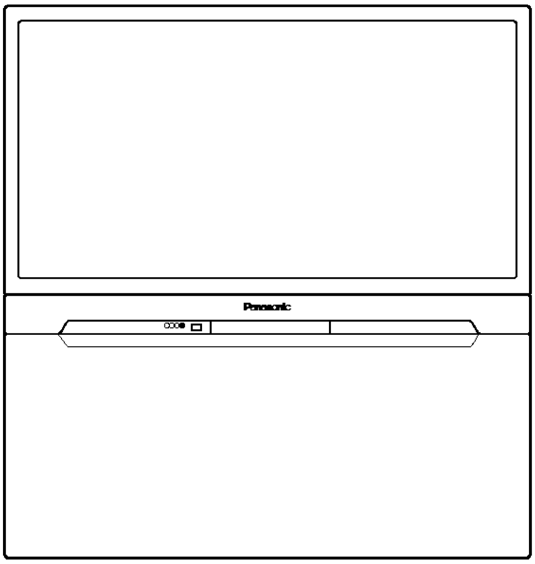
ORDER NO. ITD0203008C3

Service Manual

Projection Television

TX-47P500HM / TX-47P500HQ / TX-47P500HZ / TX-47P500X

EURO-7VPChassis



SPECIFICATIONS

Specifications

Power Source:
TX-47P500HM/HQ/HZ: AC220-240V, 50/60Hz
TX-47P500X: AC110-240V, 50/60Hz

Power Consumption:
TX-47P500HM/HQ/HZ: 218W
TX-47P500X: 228W
3.0W (Stand-by condition)

Remote control Transmitter:
EUR511229
R6 (AA) Battery ×2

Dimensions (W×H×D)
1095 mm × 1190 mm × 520 mm

Mass (Weight)
59 kg

Tuning System:
21 Systems
Frequency Synthesizer
Auto Search
100(Position)/125(Direct)

Receiving Channels:

VHF Band	2-12	(PAL/ SECAM - B, K1)
	0-12	(PAL-B AUST.)
	1-9	(PAL-B N.Z.)
	1-12	(PAL/SECAM-D)
	1-12	(NTSC-M JAPAN)
	2-13	(NTSC-M U.S.A.)
UHF Band	21-69	(PAL-G, H, I)
	21-69	(SECAM-G, K, K1)
	28-69	(PAL-B AUST.)
	13-57	(PAL-D, K)
	13-62	(NTSC-M Japan)
	14-69	(NTSC-M U.S.A.)
CATV	S1-S20	(OSCAR)
	S21-S41	(HYPER)
	1-125	(U.S.A. CATV)
	5A, 9A	(AUST.)
	Z1-Z37	(CHINA)
	C13-C49	(JAPAN)

Intermediate Frequency:

Video	38.0 MHz
Sound	31.5 MHz (D, K)/32.0 MHz (I)
	32.5 MHz (B, G)/33.5 MHz (M)
Colour	33.57 MHz (PAL)/33.6 MHz (SECAM)
	33.75 MHz (SECAM)/34.42 MHz (NTSC)

Receiving Stereo sound system:
NICAM B/G, NICAM I,
NICAM D, A2 (German)

Projection Tube:
TVVAB10GAV (B-ASSY)
TVVAG10GAV (G-ASSY)

TVVAR10GAV (R-ASSY)
90° deflection

High Voltage:
31.5 ± 1.0 kV at zero beam current

Audio Output:
24 W [2-way, 4-speakers; 12 W+12 W] (10% THD)

Headphones:
3.5 mm Plug

Aerial Impedance:
75 Ω Unbalanced coaxial

Video/Audio Terminals:

AV1, 2, 3, 4 IN	S-Video in	Y: 1.0 Vp-p 75 Ω C: 0.3Vp-p 75 Ω
DVD (Y/PB /P R)	Video in	1 Vp-p 75 Ω
	Audio in	Approx. 0.5V 47k Ω
Monitor OUT	Video out	1Vp-p 75 Ω
	Audio out	Approx. 0.5V 1k Ω

Accessories Supplied:
Remote Controller x 1
"R6" Battery x 2
75 Ω coaxial aerial plug

Design and Specifications are subject to change without notice.
Mass and dimensions shown are approximate.

⚠ **WARNING**
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Safety Precautions

1.1. General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.
   If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
5. Potential, as high as 31.5kV , is present when this monitor is in operation. Operation of the Projection Monitor without the rear cover involves the danger of a shock hazard from the power supply. Servicing should not be attempted byanyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the projection tube to the Projection Monitor chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the Projection Monitor's power switch.
3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the projection monitor, such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a returnpath to the chassis, the reading should be between 4 MΩ and 20 MΩ. When the exposed metal does not have a return path to the chassis, the reading must be∞.

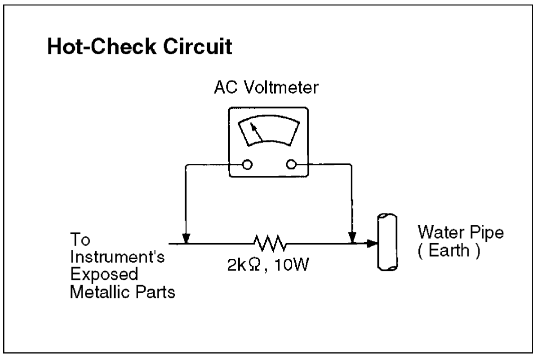
1.3. Leakage Current Hot Check (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ, 10W resistor, in series with an exposed metallic part on the projection monitor and an earth such as a water pipe.
3. Use an AC voltmeter, with high impedance type, to measure the

potential across the resistor.

4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.0V rms. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the projection monitor should be repaired and rechecked before it is returned to thecustomer.

Fig. 1



1.4. X-Radiation

Warning :

1. The potential sources of X-Radiation in projection monitor are the High Voltage section and the projection tube.
2. When using a projection tube test jig for service, ensure that jig is capable of handling 31.5kV without causing X-Radiation.

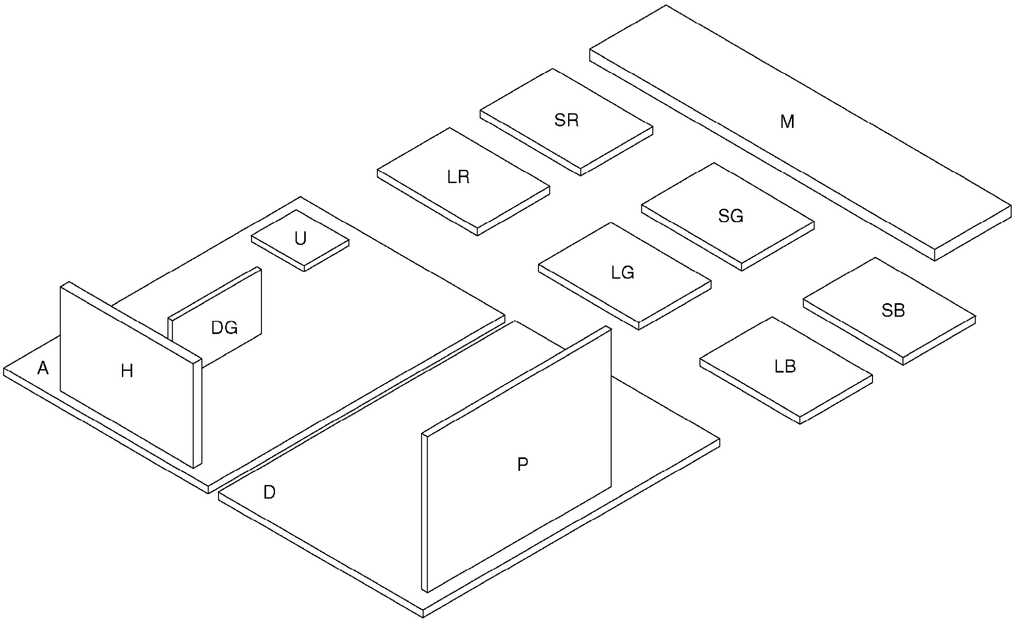
Note:
It is important use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Set the service switch to the service position.
3. Measure the High Voltage. The meter reading should indicate 31.5 ± 1.0 kV . If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of

premature component failure.

4. To prevent an X-Radiation possibility, it is essential to use the specified projection tube.

2. Chassis Board Layout

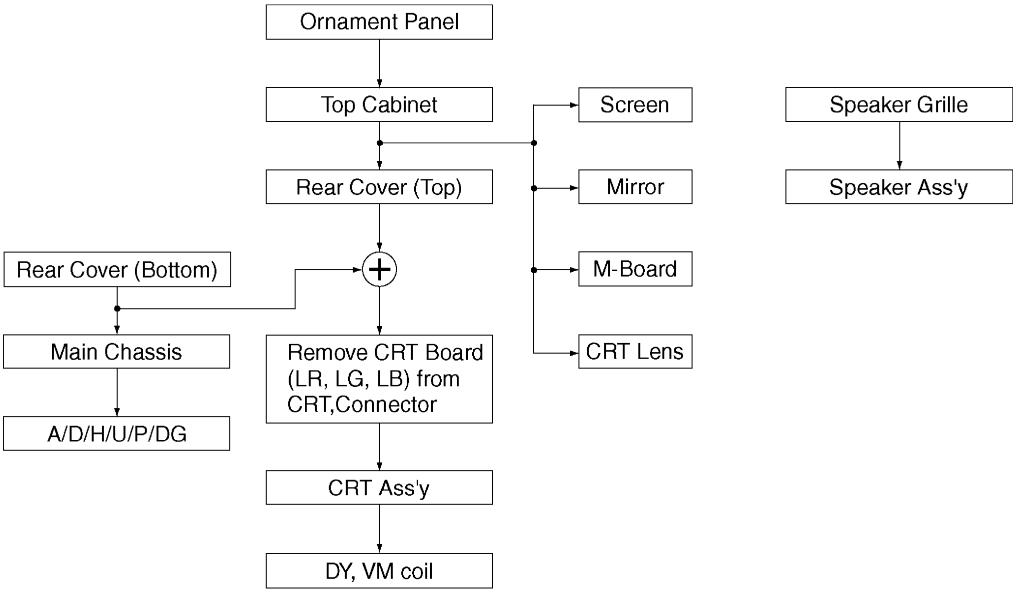


Board-Name	Function
A-Board	Main Signal, Digital Converter
P-Board	Line Filter
D-Board	Deflection, High Voltage
LR-Board	CRT Drive (R)
LG-Board	CRT Drive (G)
LB-Board	CRT Drive (B)
H-Board	Rear terminal
U-Board	MPU
M-Board	Front Terminal, Power Switch
DG-Board	Digital Core
SR-Board	VM Output (R)
SG-Board	VM Output (G)
SB-Board	VM Output (B)

3. Disassembly for Service

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing, when reassembling, perform the procedures in the reverse order.

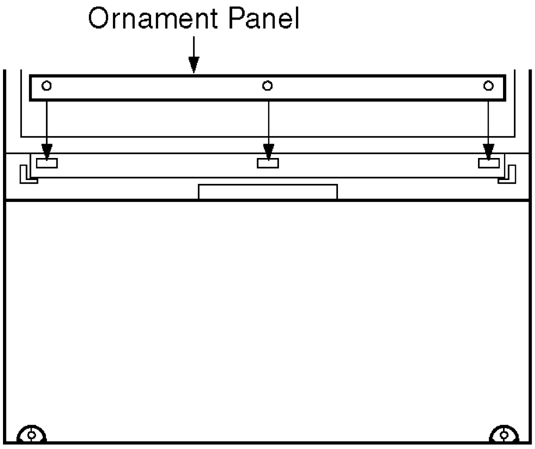
3.1. Disassembly Flowchart


Ornament Panel
Top Cabinet
Screen
Speaker Grille
Rear Cover (Top)
Mirror
Speaker Ass'y
Rear Cover (Bottom)
M-Board
Main Chassis
Remove CRT Board (LR, LG, LB) from CRT,Connector
CRT Lens
A/D/H/U/P/DG
CRT Ass'y
DY, VM coil

Note:
Board ground wires may have to be disconnected to disassemble some boards. All ground wires must be reconnected using jumper leads if necessary before power is applied to Receiver for service.

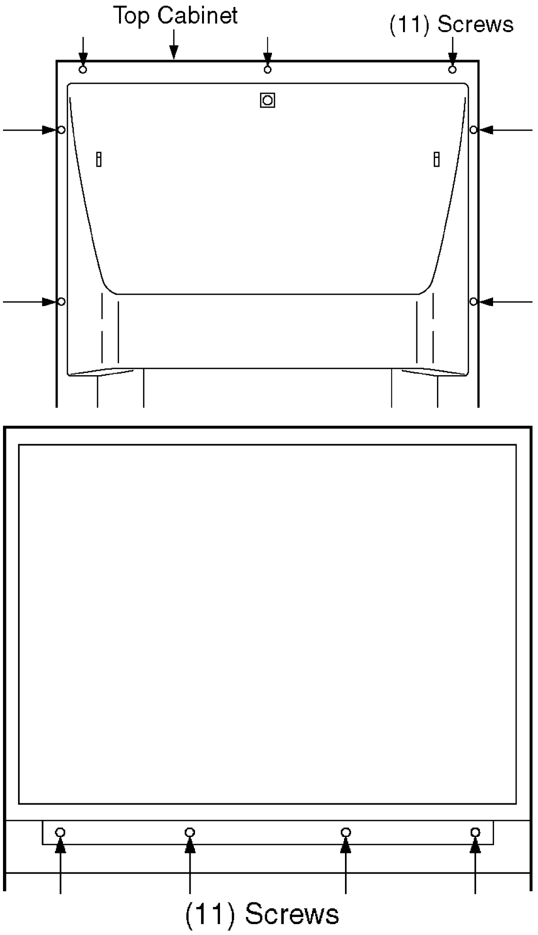
3.2. Ornament Panel

1. The Ornament Panel is secured by (3) striker pins. Grip the Ornament Panel at the side corner pull to remove.


Ornament Panel

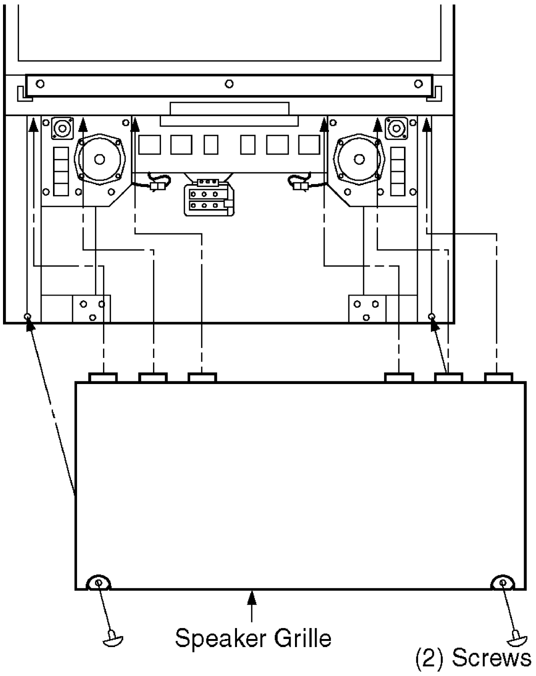
3.3. Cabinet (Top)

1. Remove (11) Screws.


Top Cabinet
(11) Screws
(11) Screws

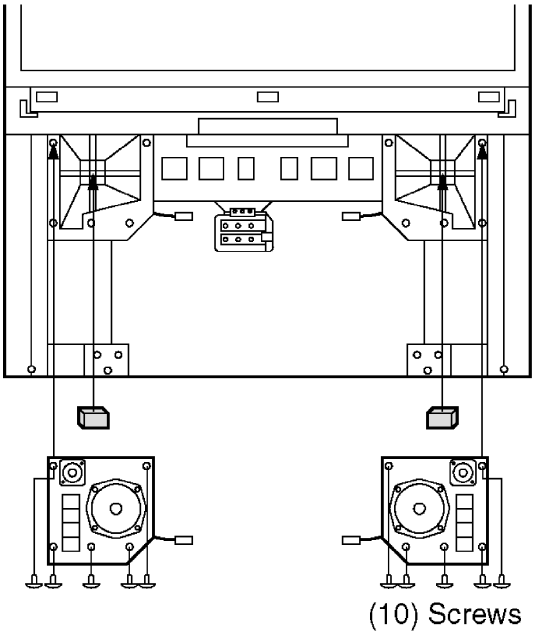
3.4. Speaker Grille

1. Remove (2) screws.


Speaker Grille
(2) Screws

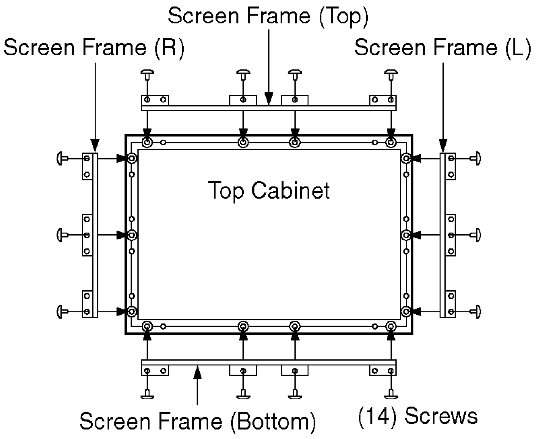
3.5. Speaker Ass'y

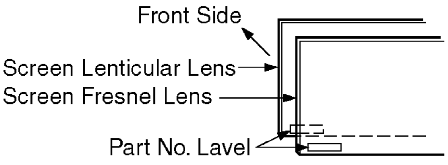
1. Remove (10) screws.



3.6. Screen

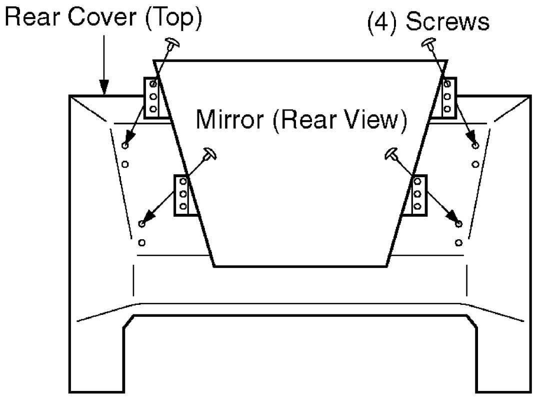
1. Remove (14) screws.


Screen Frame (Top)
Screen Frame (R)
Screen Frame (L)
Top Cabinet
Screen Frame (Bottom)
(14) Screws

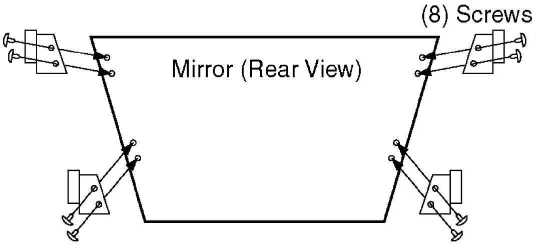

Front Side
Screen Lenticular Lens
Screen Fresnel Lens
Part No. Lavel

3.7. Mirror

1. Remove (4) screws.

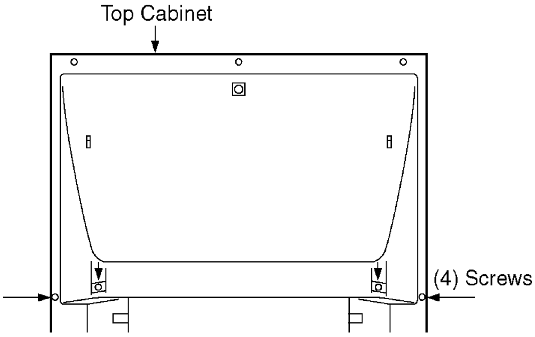

Rear Cover (Top)
(4) Screws
Mirror (Rear View)

2. Remove (8) screws.

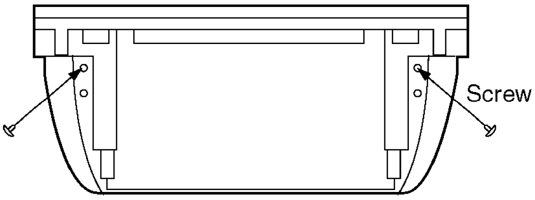

(8) Screws
Mirror (Rear View)

3.8. Rear Cover (Top)

1. Remove (4) screws.


Top Cabinet
(4) Screws

2. Remove (2) screws.



3.9. Rear Cover (Bottom)

1. Remove (18) screws.

2. Remove (1) screws.

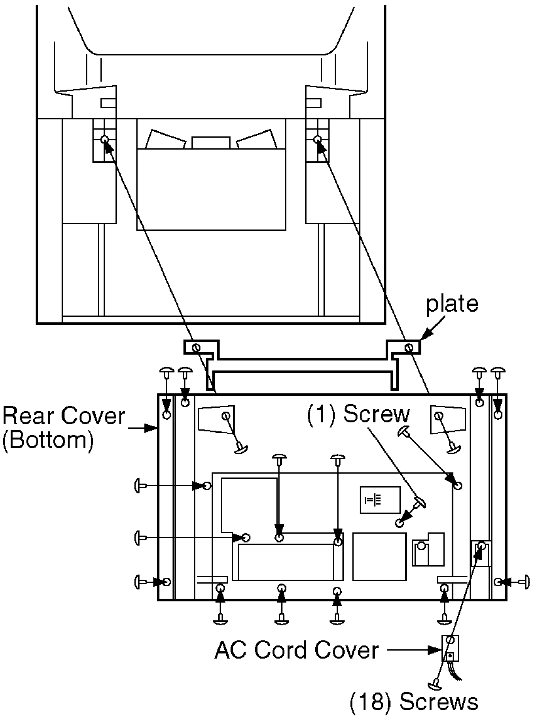
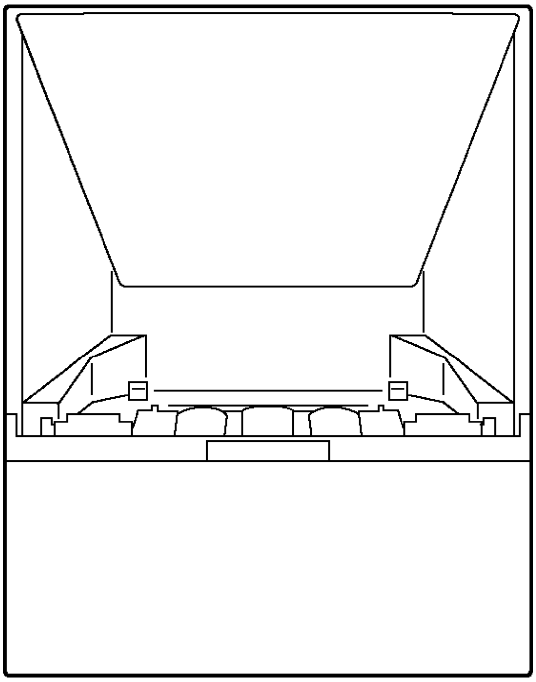


plate
Rear Cover
(Bottom)
(1) Screw
AC Cord Cover
(18) Screws

3.10. Disassembly For CRT Removal

To facilitate CRT replacement, the complete CRT mounting chassis does not need to be removed.

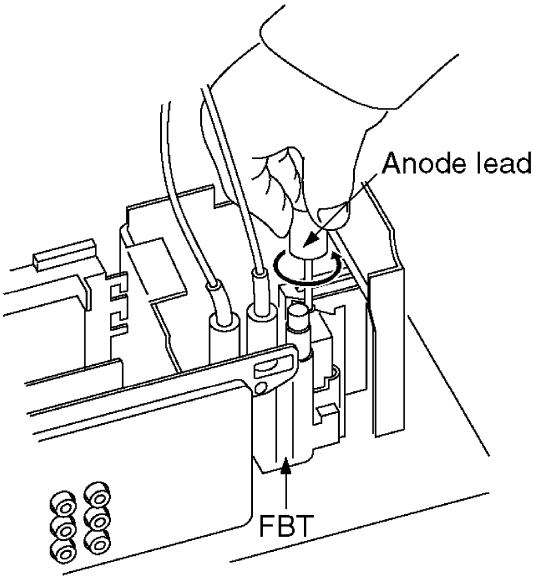
1. Remove the Screen Frame Ass'y, Decorative Panel and the Bottom Rear Cover Ass'y. (See Disassemble for Service).



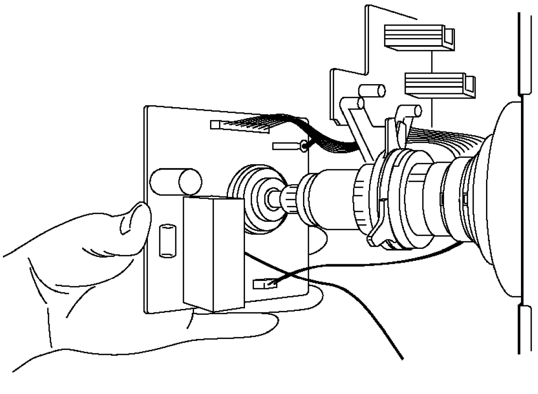
2. From the Rear side, remove the defective CRT's anode lead from the Flyback Transformer block that is mounted secured to the

Main chassis E-Board.

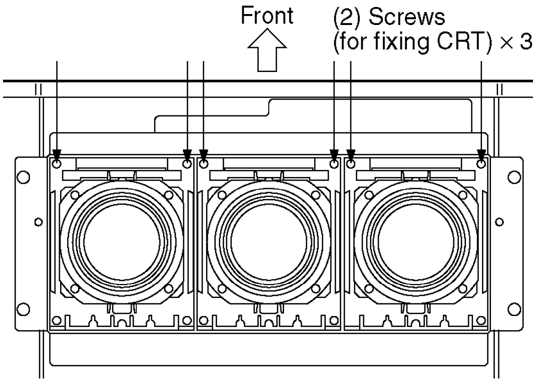
3. **Grasp the anode lead protective cap body inside, and rotate 1/4 turn counter clockwise and pull anode lead sleeve out of the distributor.**
4. **Discharge anode lead to CRT chassis metal frame.**



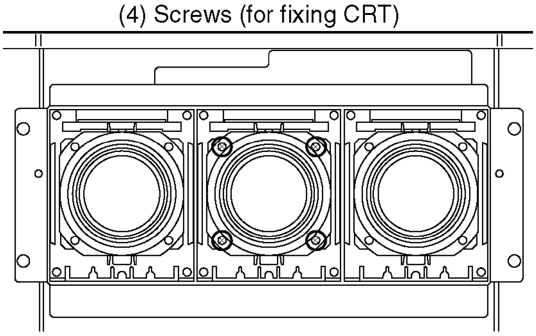
5. **Unplug the defective CRT Dag (GND), from the CRT Board, LBGND for LB, LGGND for LG, LRGND for LR.**
6. **Remove lead wires (DY, VM coil) and anode lead wire from holders as necessary.**
7. **Remove the CRT Board from the defective CRT neck.**



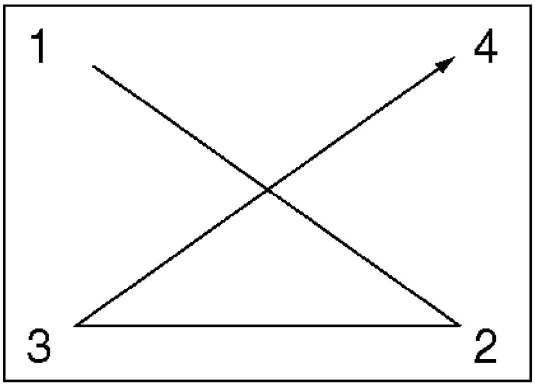
8. **Note position of yoke with centering tabs and remove from defective CRT.**
9. **From the Top, remove (2) screws from the defective CRT.**



10. Release CRT anode lead from CRT chassis wire clamp and all other wires from holders.
11. Wire the anode lead wire.
12. Lift out CRT assembly with lens assembly and other CRT neck assemblies.
13. Lay CRT face down on a soft cloth.
14. Remove CRT lens by removing (4) screws.



15. Install yoke and VM coil with other CRT neck assemblies on CRT neck in the same order and position as removed from the defective CRT.
16. Push yoke against bell of CRT and tighten the clamp just snug enough so it will not easily shift.
17. Assemble CRT focus lens assembly to new CRT with (4) screws. Make sure focus lens adjustment nut is in the same location as on other CRT focus lens.

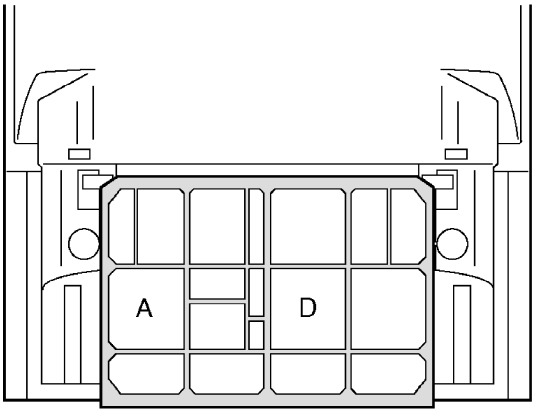


Note:
Please assemble with screws in the order shown in detail and tighten with same torque.

4. Service Hints

4.1. Service position for Main chassis

1. Remove the Rear Cover (Bottom) by removing (19) screws around its perimeter.
2. Remove lead wires and bundles from holders as necessary.
3. Pull out main chassis and stand it.

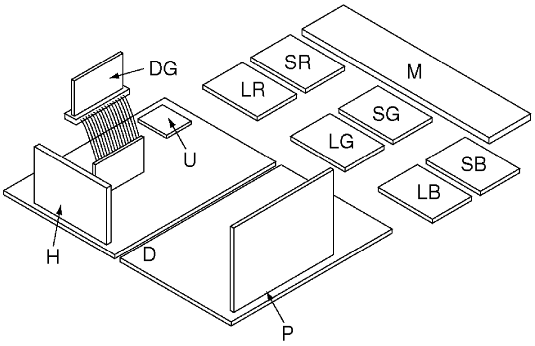


Main chasisis

4.2. Service Position for DG-Board

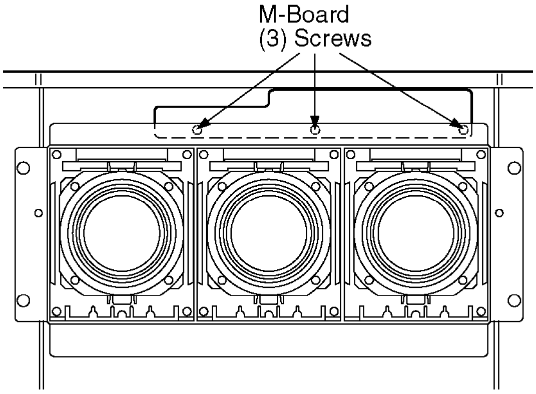
1. Remove the each circuit board from A or D-Board.
2. Connect extension cables between individual circuit board and A or D-Board.

Note:
Extension cable kit is supplied as service fixtures and tools. (Part No. TZSC0724)



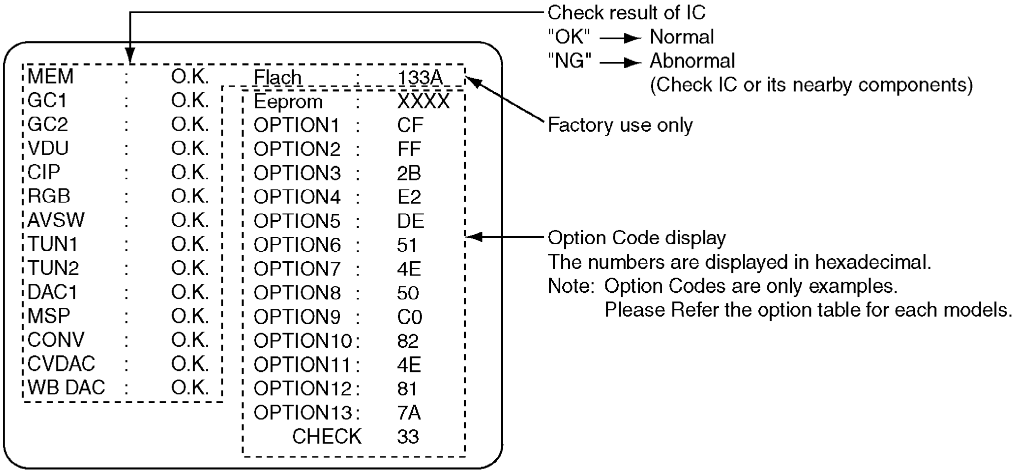
4.3. Service Position for M-Board

1. Remove the Top Cabinet Ass'y.
2. Remove M-Board by removing (3) screws.



5. Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.
2. To get into the Self -Check mode press the down (–/∨) button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control, and thescreen will show :



```
MEM     :   O.K.     Flach      :  133A
GC1     :   O.K.     Eeprom     :  XXXX
GC2     :   O.K.     OPTION1    :  CF
VDU     :   O.K.     OPTION2    :  FF
CIP     :   O.K.     OPTION3    :  2B
RGB     :   O.K.     OPTION4    :  E2
AVSW    :   O.K.     OPTION5    :  DE
TUN1    :   O.K.     OPTION6    :  51
TUN2    :   O.K.     OPTION7    :  4E
DAC1    :   O.K.     OPTION8    :  50
MSP     :   O.K.     OPTION9    :  C0
CONV    :   O.K.     OPTION10   :  82
CVDAC   :   O.K.     OPTION11   :  4E
WB DAC  :   O.K.     OPTION12   :  81
                     OPTION13   :  7A
                        CHECK      33
```

Check result of IC
"OK" → Normal
"NG" → Abnormal
(Check IC or its nearby components)

Factory use only

Option Code display
The numbers are displayed in hexadecimal.
Note: Option Codes are only examples.
Please Refer the option table for each models.

If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref. No.	Description	P.C.B.
MEM	IC1104	Memory	A-Board
GC1	IC1301	Global core IC Main	DG-Board
GC2	IC1304	Global core IC Sub	DG-Board
VDU	IC1305	Video Processor	DG-Board
CIP	IC1303	CIP	DG-Board
RGB	IC1315	RGB Processor	A-Board
AVSW	IC3001	AV SW	A-Board
TUN1	TNR001	Tuner Main	A-Board
TUN2	TNR002	Tuner Sub	A-Board
DAC1	IC1253	DAC control	A-Board
MSP	IC2001	Stereo Decoder	A-Board
CONV	IC7107	CONVERGENCE	A-Board
CVDAC	IC7121	Conv. DAC	A-Board
WB DAC	IC7702	WB DAC Control	A-Board

6. Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

6.1. How to enter SERVICE 1

1. In sound menu, set BASS to MAX, and set TREBLE to MINIMUM.

2. Simultaneously press INDEX button on remote control and VOLUME DOWN button [-] on the TV set.

6.2. How to enter SERVICE 2

1. Set the channel to CH99.

2. Press HOLD button on remote control.

Note:

To exit to Service mode, press N or Power button on remote control.

SERVICE 1

Function	Average Data	Function	Average Data
H-Pos	86	Sub SECAM B-Y	187
V-Pos	97	Sub SECAM R-Y	72
H-Amp	57	Video Gain 2	145
V-Amp	184	DAF-H-PARA	287
Parabola	38	DAF V-SAW	9
Trapezoid	124	DAF V-PARA	28
H-Parallel	8	Coarse Convergence	Access
V-Linear	34	Fine Convergence	Access
Top-Corner	20		
Bottom-Corner	21		
V-S-Correct	10		
C-Correct	3		
G-LIMIT	135		
B-LIMIT	130		
WB-B-G-ST1	109		
R High(Drive)	0138		
G High(Drive)	0128		
B High(Drive)	0128		
R Low(Cut off)	0627		
G Low(Cut off)	0640		
B Low(Cut off)	0697		
Sub-Bright	28		
RF AGC 1	17		
Sub-Contrast	58		
Sub-Colour	65		
Sub-NTSC Tint	-1		
SECAM B-Y	189		
SECAM R-Y	68		
RF AGC 2	19		
Sub-NTSC Tint2	4		
SPL, Gain	0		

- Press the RED/GREEN button to step up/down thrpugh the functions.
- Press the YELLOW/BLUE button to change the function values.
- Press the STR button after each adjustment has been mode to store the required values.

①Set the Aspect mode 16:9.
  a. Receive PAL signal and adjust each item.
  b. Next. reveice NTSC signal and adjust each time.
②Set the Aspect mode 4:3.
  a. Receive PAL signal and confirm the picture.
  Adjust each item if necessary.
  b. Next, receive NTSC signal and confirm the picture.
  Adjust each item if necessary.

CH99
+
HOLD button

CH99
+
INDEX button

SERVICE 2

Function		Function	
Y/C Delay	11	OPTION 8	50
OPTION 1	CF	OPTION 9	C0
OPTION 2	FF	OPTION 10	82
OPTION 3	2B	OPTION 11	4E
OPTION 4	E2	OPTION 12	81
OPTION 5	DE	OPTION 13	7A
OPTION 6	51	Hours	
OPTION 7	4E		

6.3. Option Descrition

Options		HM HZ	X	HQ		**ASIA**
option1		CF	CF	CF		
0E0	b0	1	1	1	Colour system	Auto(1)
	b1	1	1	1		SECAM(1)
	b2	1	1	1		NTSC(1)
	b3	1	1	1		M.NTSC(1)
	b4	0	0	0	TV NTSC 50	Reserved
	b5	0	0	0	TV SECAM 60	Reserved
	b6	1	1	1	AV NTSC 50	Reserved
	b7	1	1	1	AV SECAM 60	Reserved
option2		FF	FF	FF		
0E1	b0	1	1	1	CH Plan	ASIA / M.E. / HK / UK / CHINA(1)
	b1	1	1	1		NZ/INDNES(1)
	b2	1	1	1		AUSTRALIA(1)
	b3	1	1	1		E.EUROPE(1)
	b4	1	1	1		SPECIAL(1)
	b5	1	1	1		AMERICA(1)
	b6	1	1	1		CATV(1)
	b7	1	1	1		JAPAN(1)
option3		2B	2B	2B		
0E2	b0	1	1	1	sub picture	without sub-picture(0), with sub-picture(1)
	b1	1	1	1	2tuner	2tuner(1), 1tuner(0)
	b2	0	0	0	VGA	enable(1)
	b3	1	1	1	YUV	enable(1)
	b4	0	0	0	CRT	16:9(1), 4:3(0) (change multi window / aspect operation)
	b5	1	1	1	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	0	0	SIF	4.5 / 5.5 / 6.0 / 6.5(0), 5.5 / 6.0 / 6.5(1)
	b7	0	0	0		5.5 / 6.5(2), 6.0 / 6.5(3)
option4		E2	E2	E2		
0E3	b0	0	0	0	A2 enable	4.5(1)
	b1	1	1	1		5.5(1)
	b2	0	0	0		6.0(1)
	b3	0	0	0		6.5(1)
	b4	0	0	0	NICAM enable	4.5(1)
	b5	1	1	1		5.5(1)
	b6	1	1	1		6.0(1)
	b7	1	1	1		6.5(1)
option5		DE	DE	DE		
0E4	b0	0	0	0	A2 select 6.5MHz	5.742MHz(0) 6.742MHz(1)
	b1	1	1	1	NICAM priority	ASIA / M.E.(1)
	b2	1	1	1		HK / UK(1)
	b3	1	1	1		CHINA(1)
	b4	1	1	1		NZ / INDN(1)
	b5	0	0	0		AUSTRA(1)
	b6	1	1	1		E.EURO(1)
	b7	1	1	1		SPECIAL(1)

Options		HM HZ	X	HQ		**ASIA**
option6		51	51	D1		
0E5	b0	1	1	1	VCR/GAME in search	On(0) Off(1)
	b1	0	0	0	SASO enable	SASO enable(1)
	b2	0	0	0	Noise mute	Noise mute enable(0)
	b3	0	0	0	Monitor out AV1 mute	Monitor out AV1 mute(1)
	b4	1	1	1	AV SW 3/2AV out	CXA2069Q(1) CXA2079Q(0)
	b5	0	0	0	Tuner	MACO tuner(0), ALPS tuner(1)
	b6	1	1	1	Child lock	Child lock enable(1)
	b7	0	0	1	No motion control	No motion cotrol in film mode(1)
option7		4E	4E	4E		
0E6	b0	0	0	0	Power up EC-Mode	Power on EC enable (1)
	b1	1	1	1	CH Blanking	Blanking enable(1)
	b2	1	1	1	AV Blanking	Blanking enable(1)
	b3	1	1	1	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	0	0	0	Volume correction	TV Volume correction enable(1)
	b5	0	0	0	AVLink	Q-Link on/off selectable in menu(1)
	b6	1	1	1	MPX/NICAM display	Display NICAM(0), Display MPX(1)
	b7	0	0	0	free	
option8		50	50	D0		
0E7	b0	0	0	0	Teletext CH Refrech	enable (1)
	b1	0	0	0	Geomagnetic Sensor	Geomagnetic sensor enable(1)
	b2	0	0	0	Geomagnetic Polarity	Geomagnetic polarity +(0), -(1)
	b3	0	0	0	attenuater menu	Enable (1)
	b4	1	1	1	Fine tuning	Enable(1)
	b5	0	0	0	Search speed	Slow(1) Fast(0)
	b6	1	1	1	TEXT FLOF	Reserved
	b7	0	0	1	TEXT TOP	TOP enable(1)
option9		C0	C0	C0		
0E8	b0	0	0	0	Dolby	Dolby enable (1)
	b1	0	0	0	3D Subwoofer	Subwoofer enable(1) Dolby model should be 0.
	b2	0	0	0	Optical 2 inputs	Optical 1 input(0), 2 inputs(1)
	b3	0	0	0	free	
	b4	0	0	0	free	
	b5	0	0	0	SL SR PHASE	NON REVERSE(0), REVERSE(1)
	b6	1	1	1	Volume curve	Volume curve1(0), curve2(1)
	b7	1	1	1	Volume EXDAC	Add Volume control by EXDAC(1)
option10		88	82	88		
0E9	b0	0	0	0	free	
	b1	0	1	0	OSD language	Arabic enable(1)
	b2	0	0	0	Russian enable(1)	
	b3	1	0	1	Chinese enable(1)	
	b4	0	0	0	Blue Back	enable(0)
	b5	0	0	0	BC Safety	Reserved
	b6	0	0	0	Protect XPR	Reserved
	b7	1	1	1	Protect 5V detect	Protection input enable(1)

Options Model		HM HZ	X	HQ		**ASIA**
option11		4E	4E	4E		
0EA	b0	0	0	0	Shop mode	Max contrast(1), Normal(0)
	b1	1	1	1	DDM/Dynamic display	Reserved
	b2	1	1	1	Sub Headphone	enable(1)
	b3	1	1	1	Scan mode Blanking	Blanking enable(1)
	b4	0	0	0	User aspect 14:9	enable(1)
	b5	0	0	0	NICAM C4 bit	enable(1)
	b6	1	1	1	ID-1	enable(1)
	b7	0	0	0	1080I	enable(1)
option12		81	81	83	Area Option	
0EB	b0	1	1	1	Asia	Asia(1), europe(0)
	b1	0	0	1	Australia	Australia(1)
	b2	0	0	0	Ireland	not use
	b3	0	0	0	UK	not use
	b4	0	0	0	MELCOA	MELCOA(1)
	b5	0	0	0	28 inch	28 inch(1) when only Large size=0, Wide=1, PTV=0
	b6	0	0	0	LED	52(1) / 42(0) for PTV, 36(1) / 32(0) for Wide, 34(1) / 29(0) for 4:3
	b7	1	1	1	PTV	PTV(1)
option13		7A	7A	7A	Temporary	
0EC	b0	0	0	0	VDU Version	A21(0), A12(1)
	b1	1	1	1	GC Version	ES5(0), ES6(1)
	b2	0	0	0	UV Swap	Swap(1)
	b3	1	1	1	TEXT	Enable(1)
	b4	1	1	1	Main GC ES7	ES7(1), ES5/6(0)
	b5	1	1	1	Sub GC ES7	ES7(1), ES5/6(0)
	b6	1	1	1	Picture Shift	ON(1), OFF(0)
	b7	0	0	0	CIP2	without CIP1(0), with CIP1(1)

7. CRT Set Up

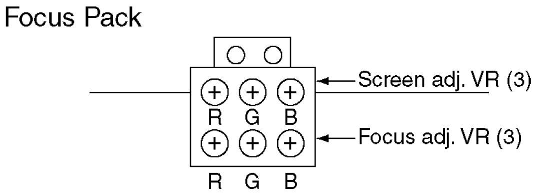
Caution:

Insure yoke plugs on the A-Board are reconnected before turning the Receiver ON to prevent damage to the horizontal output transistor and/or CRTs.

7.1. Dynamic Focus Adjustment

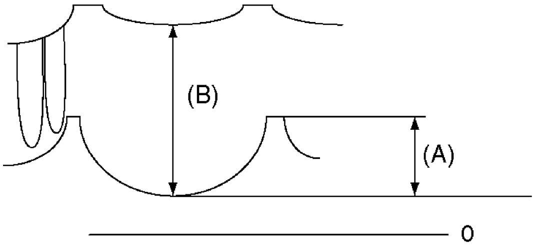
1. **Focus adjustments should be performed after 1 hour of aging.**
2. **Use oscilloscope with 100 : 1 probe.**
3. **Apply monoscope pattern.**
4. **Adjust the Red, Blue and Green focus VR on the focus block for best focus of overall picture of each CRT. (Fig. 2)**

Fig. 2



5. Connect the scope probe to TPD20, GND to TPD21. Scope set at 20V/div & 5m sec./div.
6. Adjust V-PARA (Service mode1) so that waveform (A) is 380V ± 20V. (Fig. 3)
7. Adjust H-PARA (Service mode1) so that waveform (B) is 560V ± 40V. (Fig. 3)

Fig. 3



8. Proceed with Focus Adjustments.

7.2. Electrical Focus Adjustment

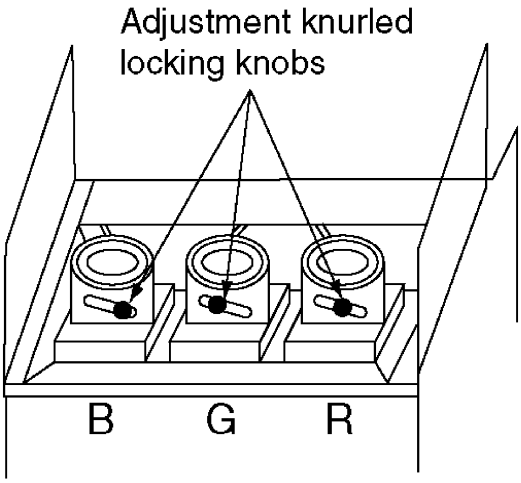
1. Receive a monoscope pattern.
2. Cover the Red and Blue CRT, projecting Green only.
   The electrical focus controls are located on the front. Adjust the Green Focus VR for best focus of overall picture. (Fig. 2)
3. Repeat for Red focus VR while projecting Red only.
4. Repeat for Blue. (Best focus at bottom left corner of screen)

7.3. Optical Lens Focus Adjustment

Note:
This adjustment normally should not require resetting unless the lens has been replaced or adjustment has changed.

1. Optical focus adjustment is located on the top of each CRT lens system. Loosen the adjustment knurls locking knob. (Fig. 4)

Fig. 4 (Rear view)



Optical lens focus adjustment

2. Turn the Receiver ON apply and view a monoscope pattern.
3. Adjust each lens focus for best focus while viewing each CRT.
4. Cover the Red and Blue CRT, projecting green only.Rotate the Green lens for best focus around screen center area.
5. Do the same for the Red focus lens while projecting Red only.
6. Repeat for Blue.

7.4. Centering Magnet Adjustment

1. Receive a monoscope pattern.
2. Confirm that Coarse convergence data (Service mode1) for R,G and B is 0.
3. Set that Fine convergence data (Service mode1) is clear (no correction).
4. Set that V-Pos data (Service mode1) is [100].
5. Set that H-Pos data (Service mode1) is [55].
6. Set that H-Parallel data (Service mode1) is [8].

Procedure:

1. Cover the Red, Blue CRT lens, projecting Green only.
2. Adjust green centering magnet (DY) if the projected green horizontal/vertical line does not line up with the screen horizontal/ vertical center line.

3. Cover the Green, Red CRT lens, projecting Blue only.

4. Repeat step 2. for blue.

5. Cover the Green, Blue CRT lens, projecting Red only.

6. Repeat step 2. for red.

7. Cover the Red, Blue CRT lens, projecting Green only.

8. Adjust green centering magnets until the center of the monoscope pattern line up with the screen center line.

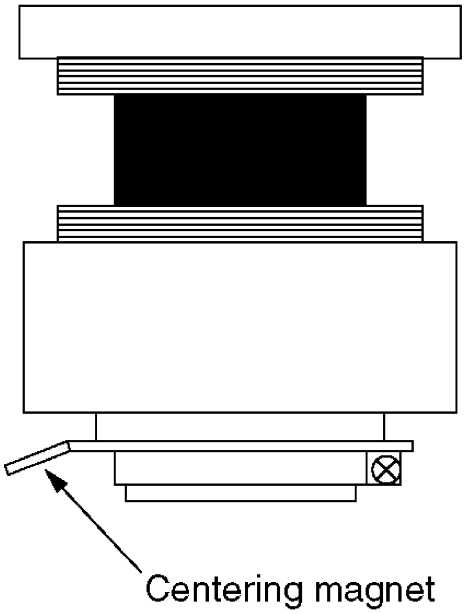
9. Cover the Green, Red CRT lens, projecting Blue only.

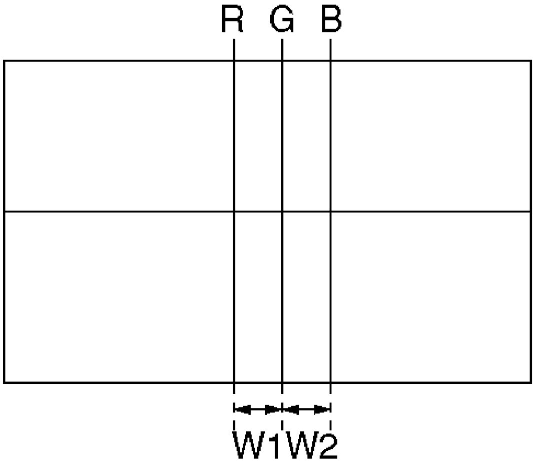
10. Adjust blue centering magnets to position the center of the blue raster W2 away from the center of the green raster.

11. Cover the Green, Blue CRT lens, projecting Red only.

12. Adjust red centering magnets to position the center of the red raster W1 away from the center of the green raster.

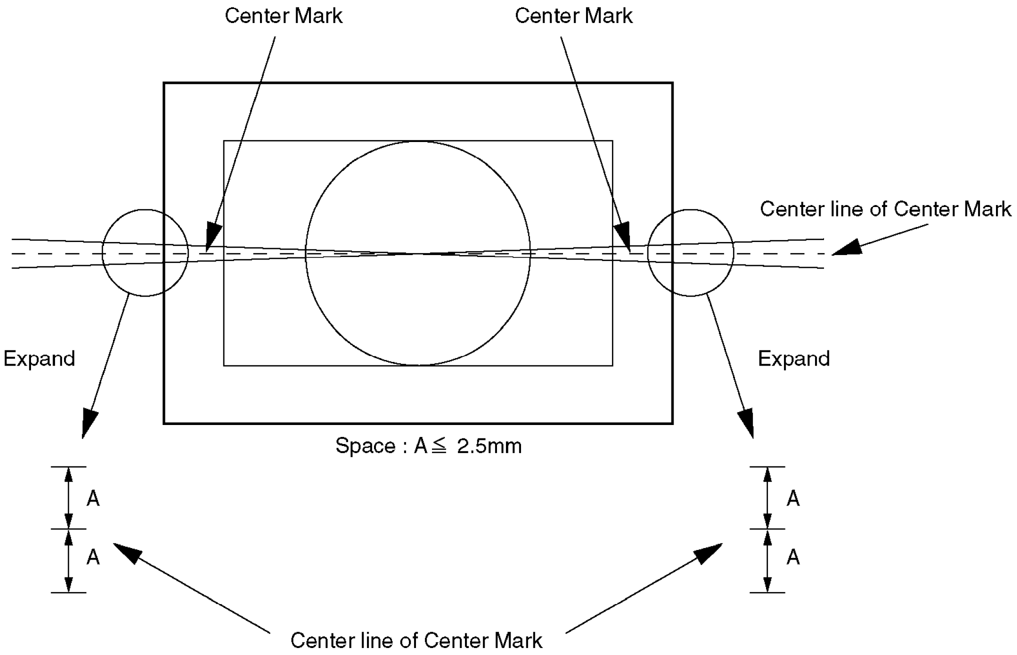
DY


Centering magnet



W1=17.5mm ± 2.5mm

W2=40.0mm ± 2.5mm

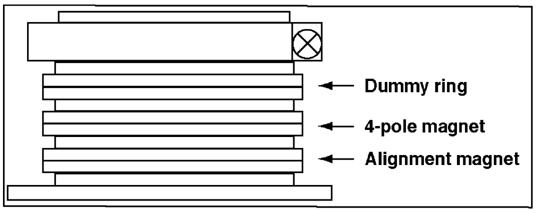

Center Mark
Center Mark
Center line of Center Mark
Expand
Expand
Space : A≦ 2.5mm
A
A
A
A
Center line of Center Mark

7.5. Alignment magnet Adjustment

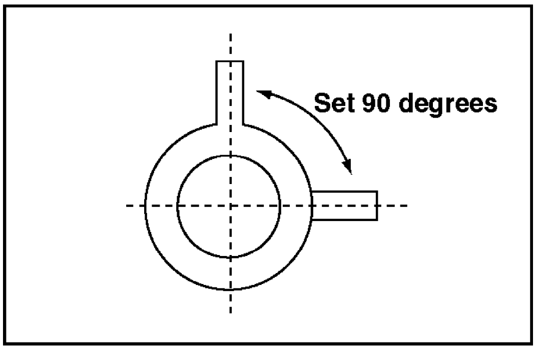
Preparation:

1. **Receive an cross hatch pattern with dots (pincushion).**
2. **Loosen the centering magnets screws.**
3. **Position the longer tab of the four-pole magnet to 90 degrees (uncorrected position).**

VM Coil with focus correction magnet

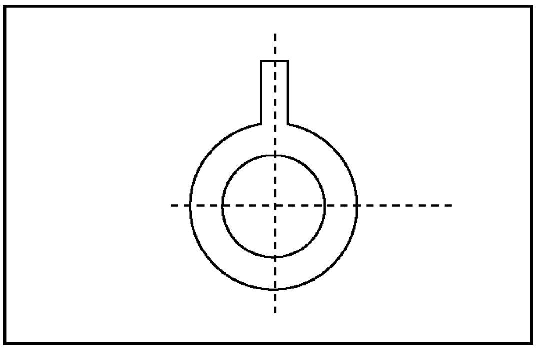

Dummy ring
4-pole magnet
Alignment magnet

4-pole magnet


Set 90 degrees

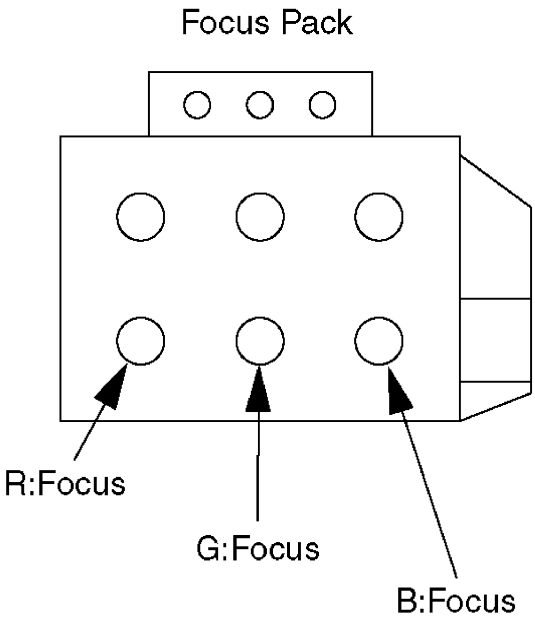
4. **Position the long tab of all alignment magnets and of the dummy ring together in an uncorrected position.**

Alignment magnet (or dummy ring)



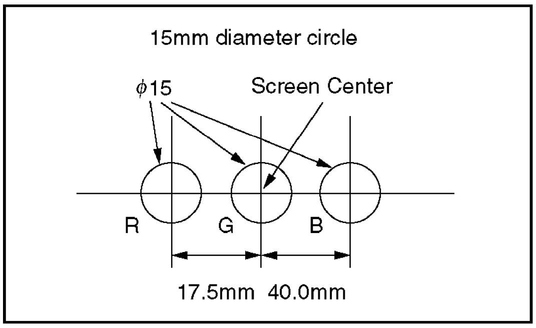
Procedure:

1. **Receive an cross hatch pattern with dots.**
2. **Cover the Red, Blue CRT lens, projecting Green only.**
3. **Turn the green electrical focus adjustment VR (on focus pack) fully counterclockwise and note the position of the dots at the center of the picture.**
4. **Turn the green electrical focus adjustment VR fully clockwise.**
5. **Adjust the four pole magnets until the shape of the dot at the center of the screen is circular.**
6. **Adjust for best green electrical focus with green electrical focus adjustment VR.**
7. **Cover the Green, Red CRT lens, projecting Blue only.**
8. **Repeat step 4. ~ step 6. for blue electrical focus.**
9. **Cover the Green, Blue CRT lens, projecting Red only.**
10. **Repeat step 4. ~ step 6. for red electrical focus.**


Focus Pack
R:Focus
G:Focus
B:Focus

11. Receive an monoscope pattern.
12. Cover the Red, Blue CRT lens, projecting Green only.
13. If the center of the monoscope pattern is not inside the 15mm circle, shown in below, adjust the centering magnets. Repeat the alignment magnet adjustments and four pole magnet adjustments (step 1. ~ step 6.)

Centering magnet adjustment


15mm diameter circle
ϕ15
Screen Center
R
G
B
17.5mm
40.0mm

14. Cover the Green, Blue CRT lens, projecting Red only.
15. Repeat step 13. for the red.
16. Cover the Green, Red CRT lens, projecting Blue only.
17. Repeat step 13. for the blue.
18. Following adjustments, fix the centering magnets of DY, dummy rings of VM coil, four pole magnets of VM coil and the alignment magnets of VM coil to prevent them from moving.

8. Deflection Adjustment

Caution

1. The following adjustment have to be carried out one with PAL signal (100i/50p) and with NTSC signal (60p/120i) .
2. Deflection adjustment need to set the Coarse/Fine Convergence to Zero Correction some time.
3. Before Deflection Adjustment are attempted, CRT Set up, Electrical Focus and Optical Lens Focus adjustment must be completed.

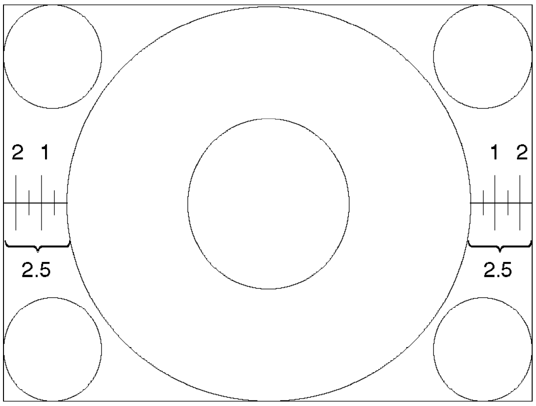
8.1. PAL 100Hz mode (100i)

8.1.1. Preparation

1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set Aspoct to “1619”.
6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

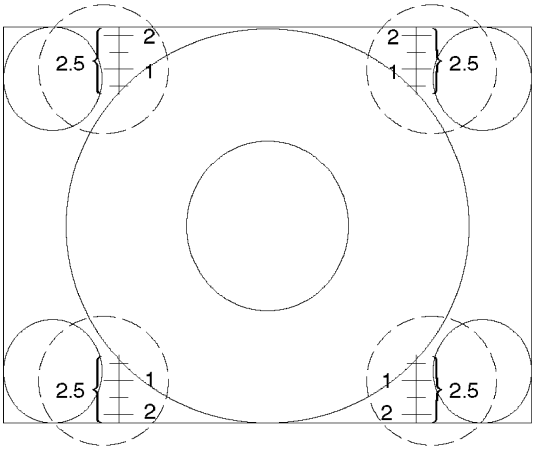
8.1.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.5 ±0.1 division of a scale by H-Amp control.

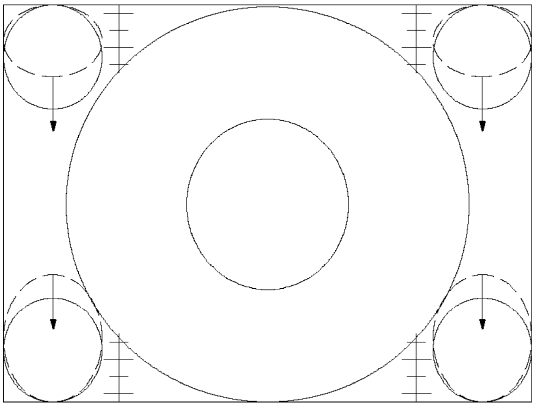


8.1.3. V-Amp, V-Linear and V-Pos Adjustment

1. **Adjust Vertical amplitude for 2.5 ± 0.1 division of a scale by V-Amp control.**



2. **Confirm Vertical Linear as to the balance of circle, if need adjust V -Linear control.**



3. **Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.**

8.1.4. Parabola and Trapezoid Adjustment

1. Receive PAL cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.2. PAL Progressive mode (50p)

8.2.1. Preparation

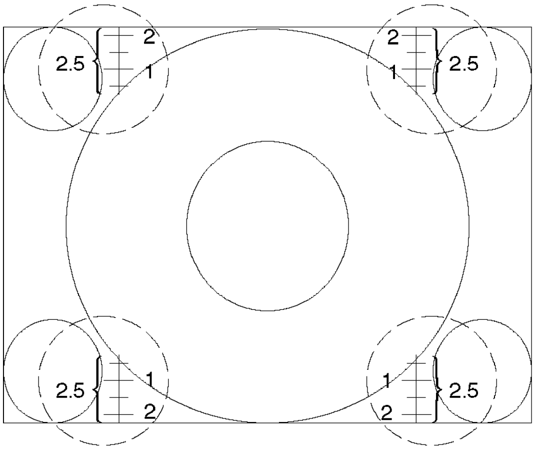
1. Receive PAL monoscope pattern.
2. Copy the Data of PAL 100Hz mode (100i) to PAL Progressive mode (50p)
3. Set scan mode to progressive.
4. Set the Picture Menu to NORMAL.
5. Set the TV to Service Mode 1.
6. Set the Data of Service Mode 1 as follow

H-Parallel	7	Bottom-Corner	21
V-Linear	36	V-S-Correct	10
Top-Corner	21	C-Correct	4

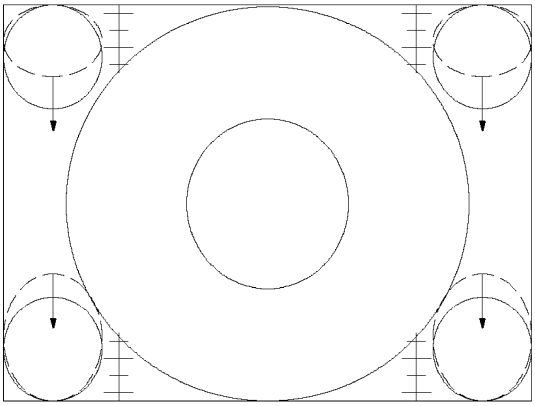
7. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
8. Push [HELP] button so that projecting Green only.

8.2.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.5 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V -Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.3. NTSC Progressive mode (60p)

8.3.1. Preparation

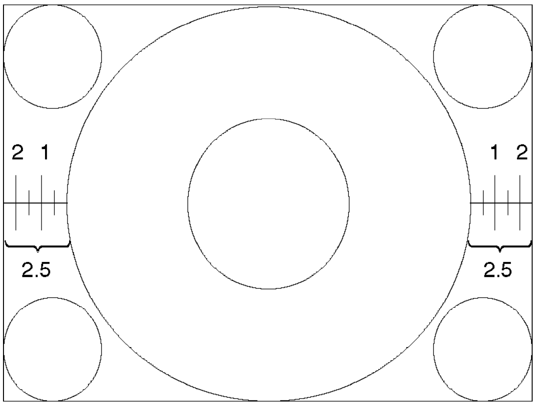
1. Receive NTSC monoscope pattern.
2. Set scan mode to Progressive.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

H-Parallel	7	Bottom-Corner	21
V-Linear	35	V-S-Correct	10
Top-Corner	20	C-Correct	4

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

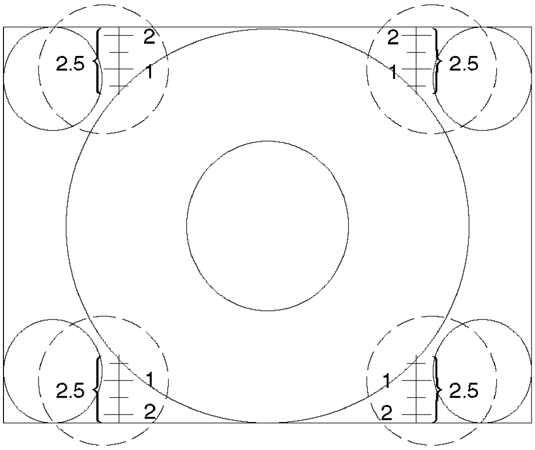
8.3.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.5 ± 0.1 division of a scale by H-Amp control.

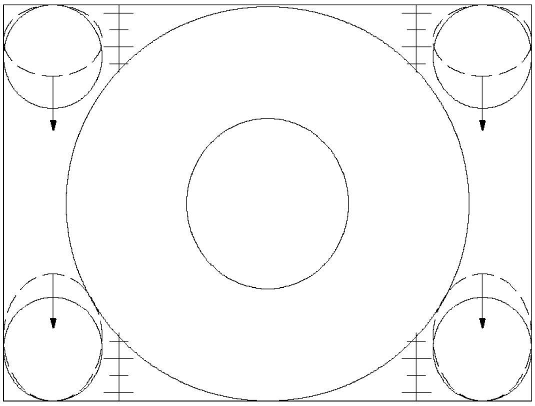


8.3.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.5 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V -Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.3.4. Parabola and Trapezoid Adjustment

1. Receive NTSC cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.4. NTSC 120Hz mode (120i)

8.4.1. Preparation

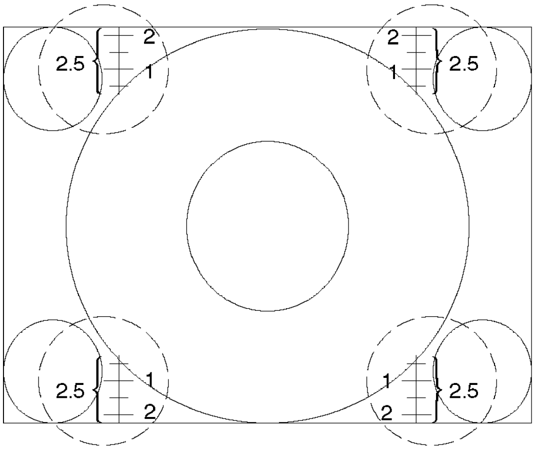
1. Receive PAL monoscope pattern.
2. Copy the Data of to NTSC Progressive mode (60p) to NTSC 120Hz mode (120i).
3. Set the Picture Menu to NORMAL.
4. Set scan mode to 120Hz.
5. Set the TV to Service Mode 1.
6. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-Corner	21
V-Linear	30	V-S-Correct	10
Top-Corner	20	C-Correct	4

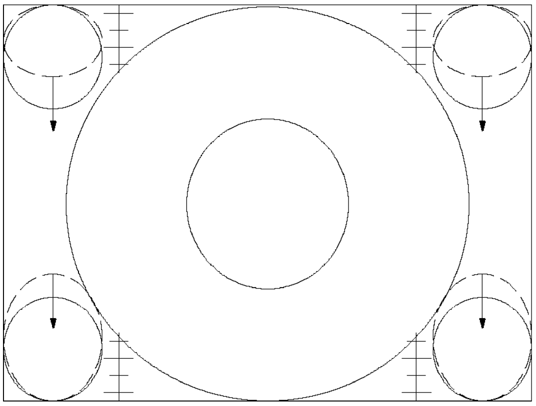
7. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
8. Push [HELP] button so that projecting Green only.

8.4.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.5 ±0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V -Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.5. 525p Deflection Adjustment / Confirmation

8.5.1. V / H-Deflection confirmation

1. Receive 525p signal.
2. Confirm V / H-Deflection is normal.

8.5.2. H-Pos confirmation / Adjustment

1. Receive 525p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

8.6. 625p Deflection Adjustment / Confirmation

8.6.1. V / H-Deflection confirmation

1. Receive 625p signal.
2. Confirm V / H-Deflection is normal

8.6.2. H-Pos confirmation / Adjustment

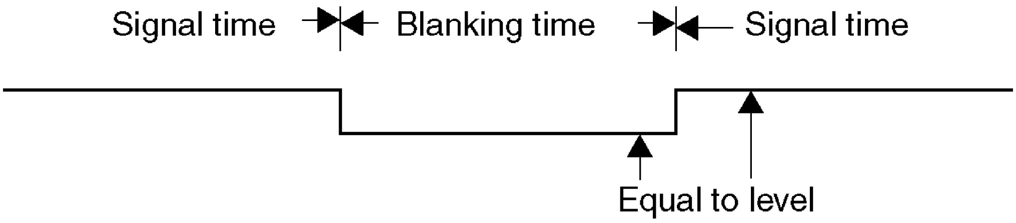
1. Receive 625p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

9. Adjustment Procedure

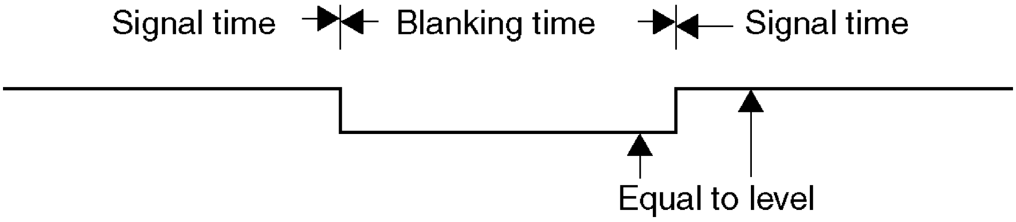
9.1. SECAM Black Level Adjustment

Preparation
Picture Menu: Dynamic
AI: ON
Adjustment

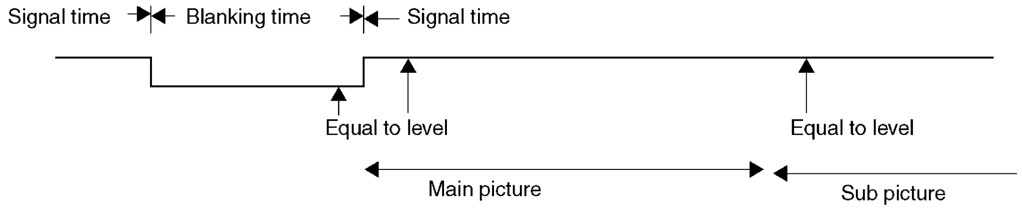
1. Receive SECAM white pattern.
2. Connect an oscilloscope to A44 pin 39(B-Y OUT) on A-Board.
3. Adjust SECAM B-Y so that H-blanking time and colour center are equal level.


Signal time
Blanking time
Signal time
Equal to level

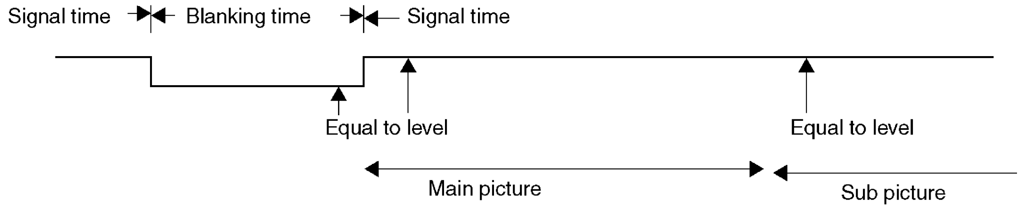
4. Connect an oscilloscope to A44 pin 41(R-Y OUT) on A-Board.
5. Adjust SECAM R-Y so that H-blanking time and colour center are equal level.


Signal time
Blanking time
Signal time
Equal to level

6. Connect an oscilloscope to A44 pin 39(B-Y OUT) on A-Board.
7. Adjust Sub SECAM B-Y so that H-blanking time and colour center are equal level.


Signal time
Blanking time
Signal time
Equal to level
Equal to level
Main picture
Sub picture

8. Connect an oscilloscope to A44 pin 41(R-Y OUT) on A-Board.
9. Adjust Sub SECAM R-Y so that H-blanking time and colour center are equal level.


Signal time
Blanking time
Signal time
Equal to level
Equal to level
Main picture
Sub picture

9.2. Cut off Adjustment

Preparation

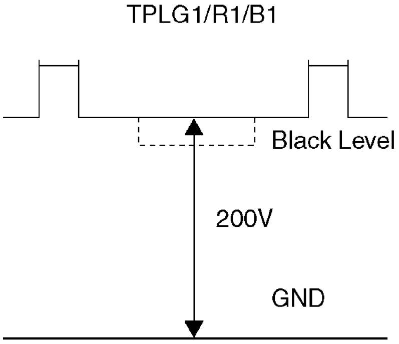
Picture Menu : Dynamic WB-B-G-ST1 : 255
C Temp : Standard High-RGB : 128
AI : ON Low-RGB : 640
P-NR : ON Cut off : A8
Scan Mode : 100Hz (PAL) G-Limit : 255
Screen VR : Full Counterclockwise B-Limit : 255

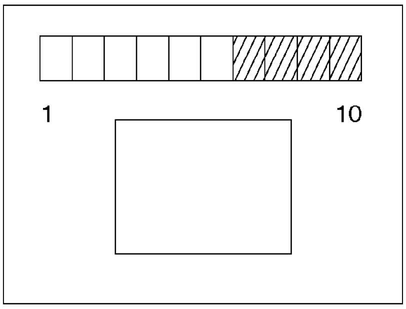
Adjustment

1. Receive a Black Level pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Bright so that the waveform A is 200 ± 2V.
4. Connect an oscilloscope to TPLR1 on LR-Board.
5. Adjust Low-R so that the waveform A is 200 ± 2V.
6. Connect an oscilloscope to TPLB1 on LB-Board.
7. Adjust Low-B so that the waveform A is 200 ± 2V.
8. It pushes and it makes a [HELP] key the project only of GREEN.
9. The 6th paragraph shines faintly with the screen VR of GREEN and the 7th paragraph does to the sinking style.
10. It pushes and it makes a [HELP] key the project only of RED.
11. The paragraph shines faintly with the screen VR of RED and the 7th paragraph does to the sinking style.

12. It pushes and it makes a [HELP] key the project only of BLUE.

13. The 6th paragraph shines faintly with the screen VR of BLUE and the 7th paragraph does to the sinking style.





9.3. Sub Contrast / G-Limit Adjustment

Preparation

Picture Menu : Dynamic   WB-B-G-ST1 : 255
C Temp : Standard   High-RGB : 128
AI : ON   Low-RGB : 640
P-NR : ON   G-Limit : 255
Scan Mode : 100Hz (PAL)
Cut off Adjustment has been adjusted

Adjustment

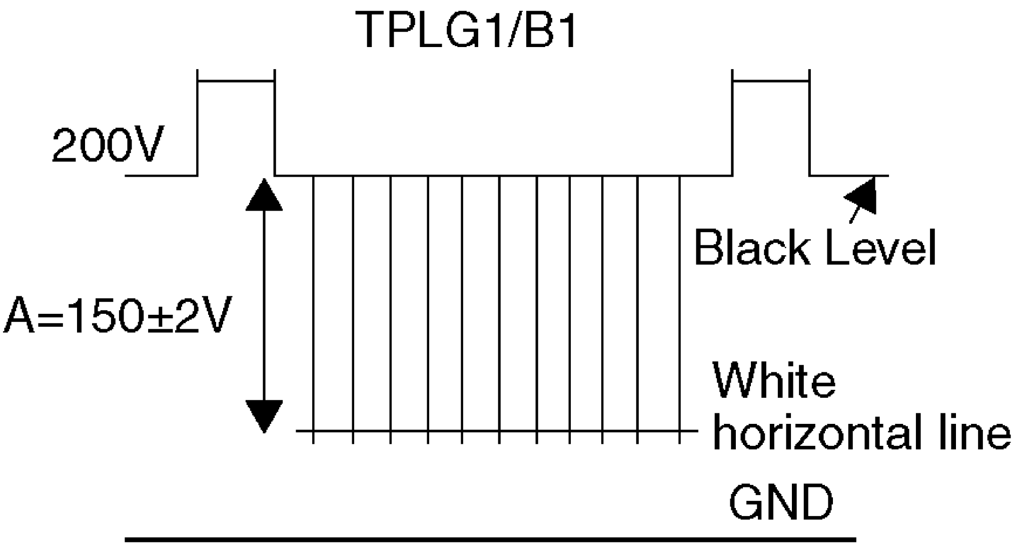
1. Receive a Cross Hatch pattern.

2. Connect an oscilloscope to TPLG1 on LG-Board.

3. Adjust Sub Contrast so that the waveform A is 150 ± 2V.

4. Before G-Limit Adjustment is attempted, Sub Contrast adjustment must be completed.

5. Adjust G-Limit so that the waveform A is 125 ± 2V.


TPLG1/B1
200V
A=150±2V
Black Level
White
horizontal line
GND

9.4. Sub Picture Contrast Adjustment

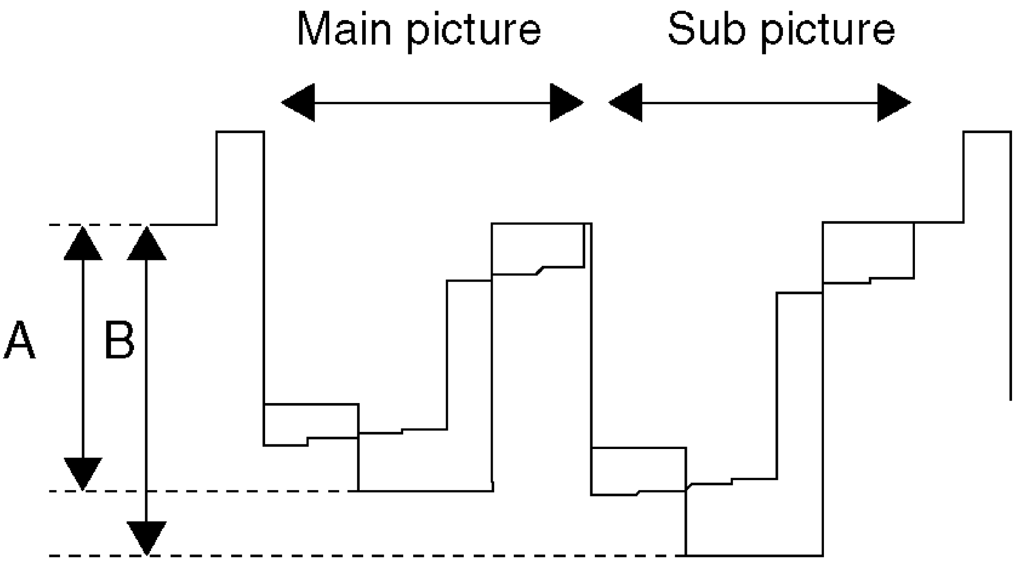
Preparation

Picture Menu : Dynamic

AI : ON

Adjustment

1. **Receive a Colour Bar pattern.**
2. **Connect an oscilloscope to TPLG1 on LG-Board.**
3. **Increment / Decrement Video gain2 to adjust Sub-Video level B as same as Main video level A.**


Main picture
Sub picture
A
B

9.5. NTSC Tint Adjustment

Preparation

Picture Menu : Dynamic **P-NR : ON**

C Temp : Standard **Scan Mode : 100Hz (PAL)**

AI : ON
Adjustment

1. **Receive a Rainbow (NTSC 3.58Hz) pattern.**
2. **Connect an oscilloscope to TPLR1 on LR-Board.**
3. **Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. A.**

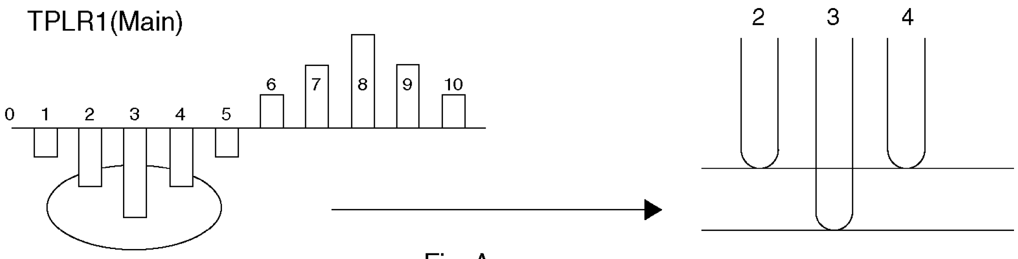

TPLR1(Main)
0 1 2 3 4 5
6 7 8 9 10
2 3 4

Fig. A

4. **Receive a Rainbow (NTSC 3.58Hz) pattern on both of Main and Sub picture.**
5. **Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similar to Fig. B.**

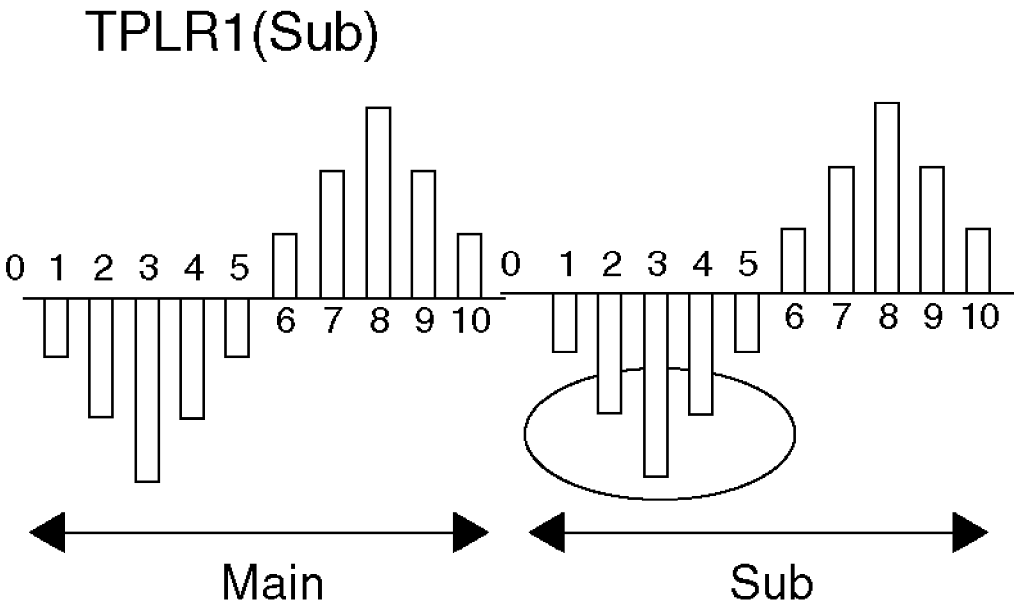

TPLR1(Sub)
0 1 2 3 4 5
6 7 8 9 10
0 1 2 3 4 5
6 7 8 9 10
Main
Sub

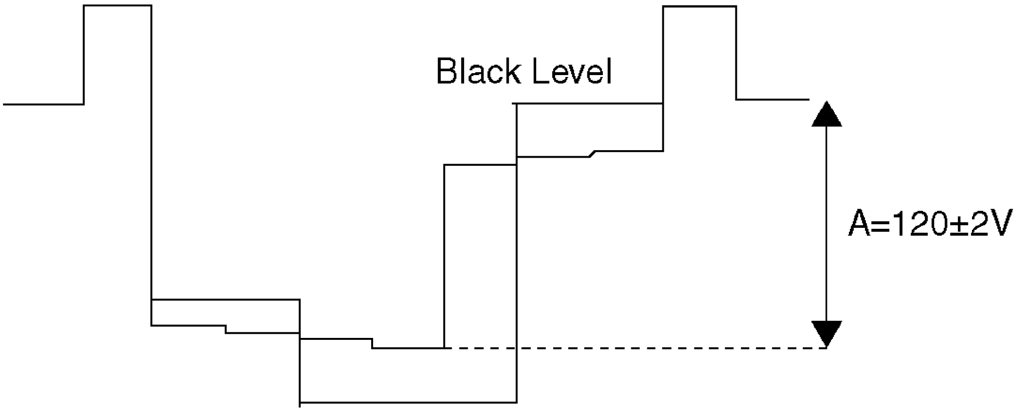
Fig. B

9.6. Sub Color Adjustment

Preparation
Picture Menu : Dynamic　　P-NR : ON
C Temp : Standard　　Scan Mode : 100Hz (PAL)
AI : ON　　ACL : OFF

Adjustment

1. **Receive a PAL Colour Bar pattern.**
2. **Connect an oscilloscope to TPLG1 on LG-Board.**
3. **Adjust Sub Color so that the waveform A is 120 ± 2V.**



9.7. Blue Focus / Gamma Adjustment

Preparation

Picture Menu : Dynamic **WB-B-G-ST1 : 0**

C Temp : Standard **B-Limit : 255**

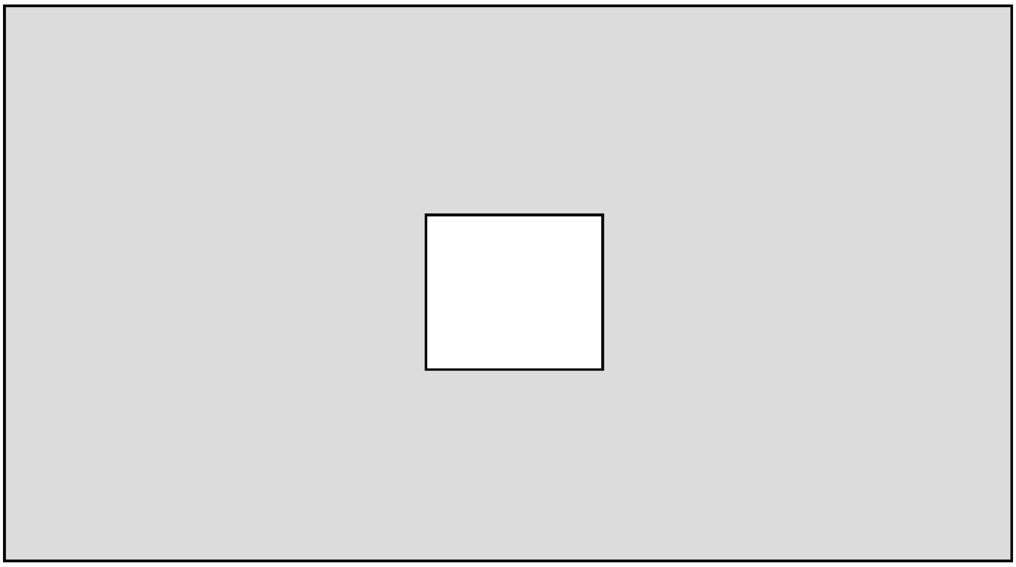
AI : ON

P-NR : ON

Scan Mode : 100Hz (PAL)

Adjustment

1. **Set the White Balance Meter on Screen center.**
2. **Receive a Window pattern.**
3. **Set the Sub Contrast and High-B to Max.**
4. **It pushes and it makes a [HELP] key the project only of BLUE.**
5. **Adjust Blue Focus VR so that Y is 4.0 ± cd/m2**



9.8. White Balance Adjustment

Preparation

Picture Menu : Dynamic   Sub Bright : 60
C Temp : Dynamic   High R : 90
AI : ON   High G : 128
P-NR : ON   High B : 90
Scan Mode : 100Hz (PAL)   WB-B-G-ST1 : 130
Low G : 640

Adjustment

1. **Set the White Balance Meter on Screen center.**
2. **Receive a Window pattern.**
3. **Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.**
4. **Adjust High R, WB-B-G-ST1, High B, Low R, and Low B to the table value.**

Mode	Bright	Controle DAC name		Target (x)	C. Temp	MPCD
	(cd/m^2)	RED	BLUE	(y)	(K)	
Hi	80	High R	WB–B–G–ST1	0.270 ± 0.005	13000 ± 500	–5 ± 5
				0.244 ± 0.005		
Mid	20	– – –	High B	0.277	11500 ± 500	–20 ± 5
				0.244 ± 0.005		
Low	1.8	Low R	Low B	0.287 ± 0.008	9200 ± 500	–25 ± 5
				0.240 ± 0.008		

9.9. Sub Bright Adjustment

Preparation

Picture Menu : Dynamic   P-NR : ON
C Temp : Dynamic   Scan Mode : 100Hz (PAL)

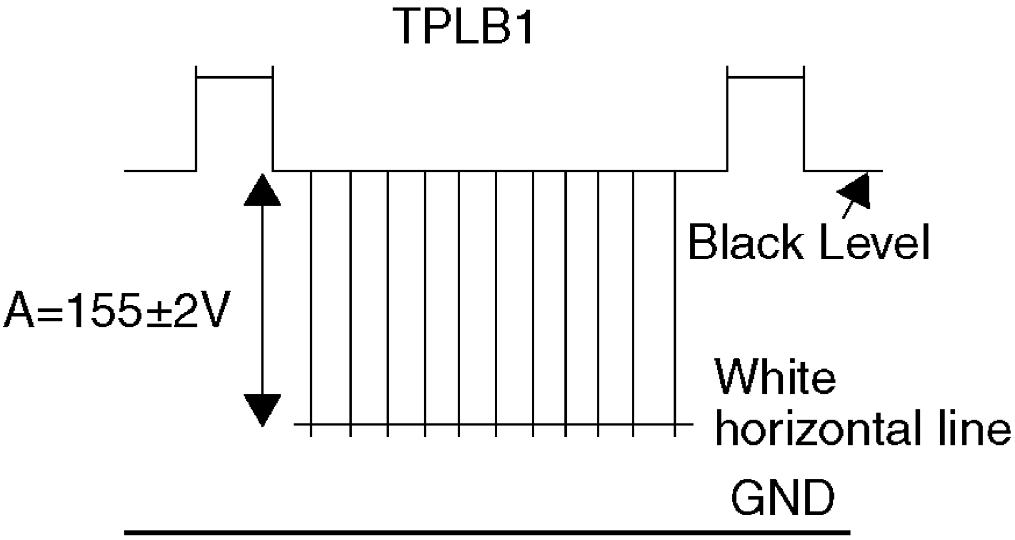
AI : ON
Cut off and White Balance Adjustment has been adjusted
Adjustment

1. **Set the White Balance Meter on Screen center.**
2. **Receive a PAL Window pattern.**
3. **Adjust Sub Bright so that the 7th paragraph shines faintly and the 8th paragraph does to the sinking style.**

9.10. Blue Limit Adjustment

Preparation
Picture Menu : Dynamic
C Temp : Standard
AI : ON
P-NR : ON
Scan Mode : 100Hz (PAL)
White Balance Adjustment has been adjusted
Adjustment

1. **Receive a Cross Hatch pattern.**
2. **Connect an oscilloscope to TPLB1 on LB-Board.**
3. **Adjust B-LIMIT so that the waveform A is 155 ± 2V.**



10. Convergence Adjustment

The convergence adjustment is set separately for each 50/100Hz/ 60/100Hz input (NTSC, PAL/ SECAM). The following explanation uses the PAL mode as an example, since the same procedure applies to the convergence adjustmentfor NTSC mode.
When replacing the following Parts.
IC7101 (EEP-ROM in Digital Convergence Circuit)L551 (Pincushion Coil)High Voltage Producing PartsOther Parts (If change the convergence)

Create an Adjustment Sheet by tracing the following specifications in their actual size on transparent film or tracing paper.Then adjust the convergence.

When replacing one of the CRT's.

Adjust the convergence for each of the 50/100Hz and 60/120Hz inputs so that they are aligned with the other colours.

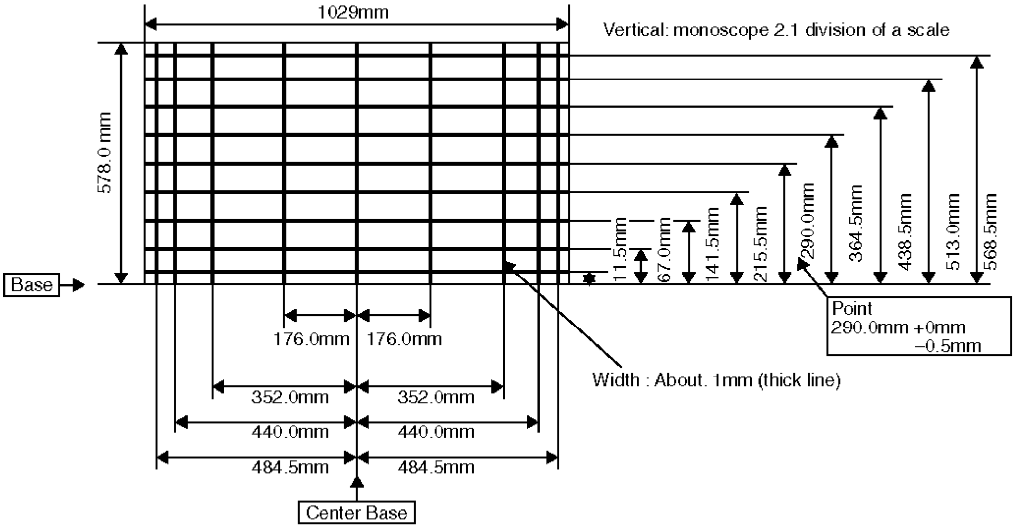
Helpful Hint

All positions which have been adjusted are recorded within P-2 for NTSC data and P-3 for PAL data of the memory.This data can be copied to P-4 memory area, allowing you to perform the adjustment of P-2 (NTSC) and P-3 (PAL).To perform these adjustments,push the SEARCH button on the remote control, and manipulate the position [▲] and [▼] button and the "N" button as instructedby the On Screen Display in Fine Convergence adjustment.

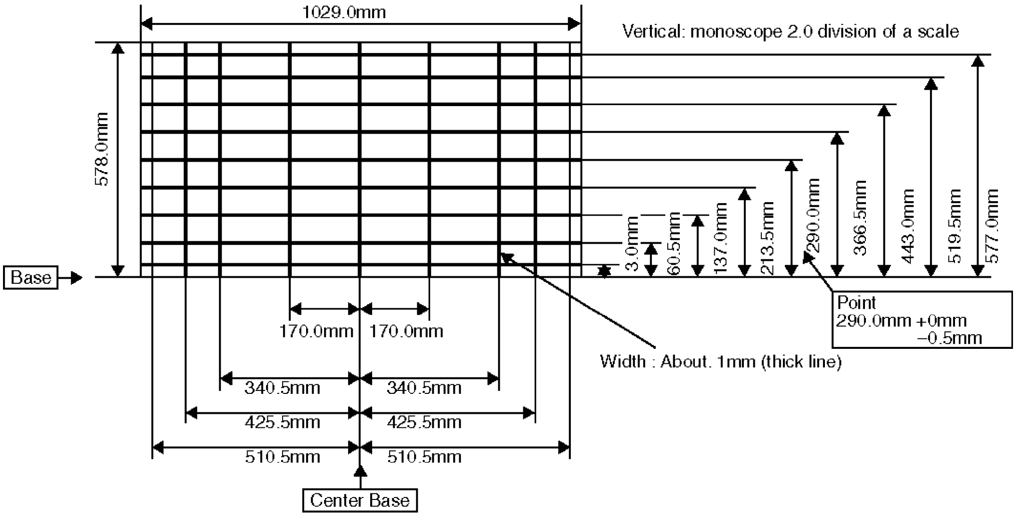
All of the Convergence Control Charts have been listed for the remote control buttons after the Convergence Adjustment Procedure Please refer to these.(Page 29 and 30)

10.1. Convergence Adjutment Sheet

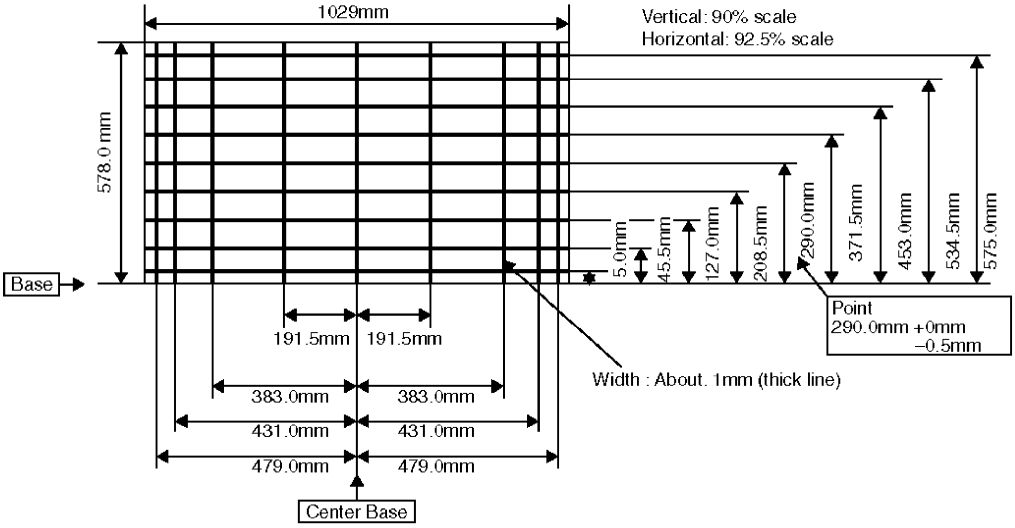
1. PAL (100i & 50p)


1029mm
Vertical: monoscope 2.1 division of a scale
578.0 mm
Base
11.5mm
67.0mm
141.5mm
215.5mm
290.0mm
364.5mm
438.5mm
513.0mm
568.5mm
Point
290.0mm +0mm
−0.5mm
176.0mm
176.0mm
Width : About. 1mm (thick line)
352.0mm
352.0mm
440.0mm
440.0mm
484.5mm
484.5mm
Center Base

2. NTSC (120i & 60p)

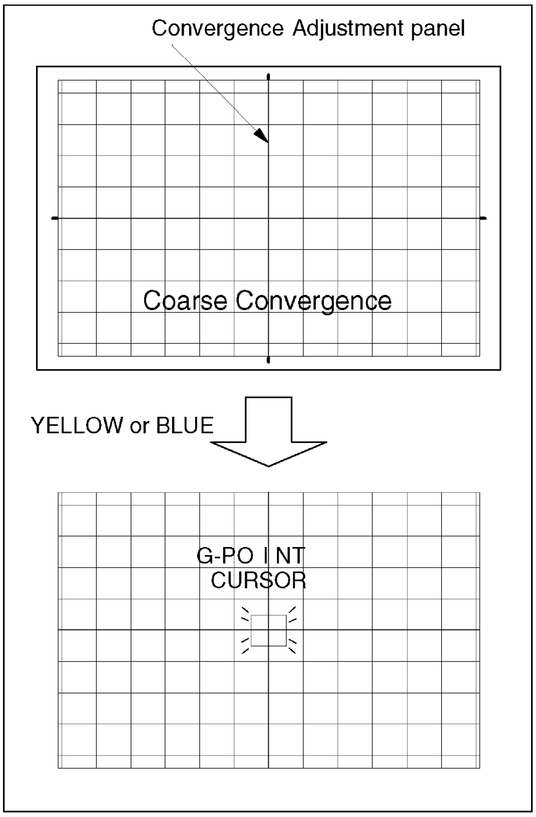

1029.0mm
Vertical: monoscope 2.0 division of a scale
578.0mm
Base
3.0mm
60.5mm
137.0mm
213.5mm
290.0mm
366.5mm
443.0mm
519.5mm
577.0mm
Point
290.0mm +0mm
−0.5mm
170.0mm
170.0mm
Width : About. 1mm (thick line)
340.5mm
340.5mm
425.5mm
425.5mm
510.5mm
510.5mm
Center Base

3. 1080i

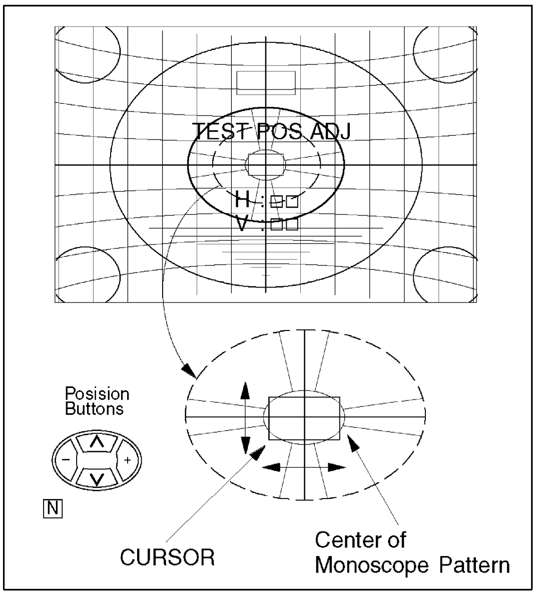

1029mm
Vertical: 90% scale
Horizontal: 92.5% scale
578.0 mm
Base
5.0mm
45.5mm
127.0mm
208.5mm
290.0mm
371.5mm
453.0mm
534.5mm
575.0mm
Point
290.0mm +0mm
−0.5mm
191.5mm
191.5mm
Width : About. 1mm (thick line)
383.0mm
383.0mm
431.0mm
431.0mm
479.0mm
479.0mm
Center Base

10.2. Convergence Adjustment Procedure

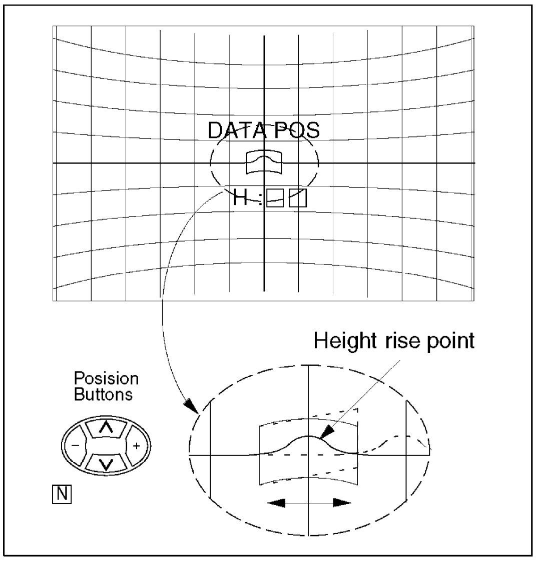
1. **Input a monoscope pattern of PAL.**
2. **Enter the Service Mode1.**
3. **Select the Coarse Convergence by pushing "RED" or "GREEN" buttons. Then push "YELLOW" button, and push Position and [N] buttons to set the data to zero.**
4. **Stick the Convergence Adjustment Sheet (PAL 50Hz) onto the screen.**
5. **Push the “YELLOW” or “BLUE” on the remote control, and enter the Coarse Convergence Adjustment mode.**


Convergence Adjustment panel
Coarse Convergence
YELLOW or BLUE
G-PO I NT
CURSOR

6. Push the "0" of 10 key buttons, and then push the "N" of position buttons on the remote control.
7. Enter to "TEST POS." mode.
8. Push the "5" button to display the monoscope pattern on the screen.
9. Adjust the position buttons so that the cursor in the center of the test pattern is aligned with the center of the monoscope pattern.


TEST POS ADJ
H :
V :
Posision Buttons
N
CURSOR
Center of Monoscope Pattern

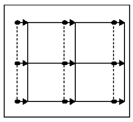
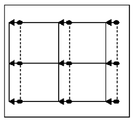
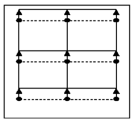
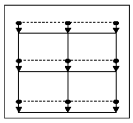
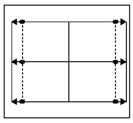
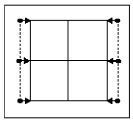
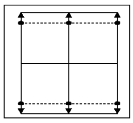
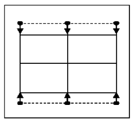
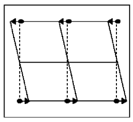
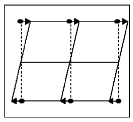
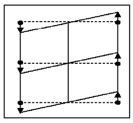
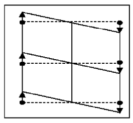
10. Push the "TV/AV" button on the remote control, and enter the "DATA POS." mode.
11. Push the "5" button and close the background image (monoscope pattern).
12. Use the "◀" and "▶" of the position buttons so that the bump in the screen center line is at the center of the cursor.

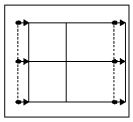
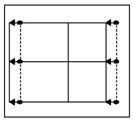
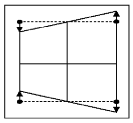
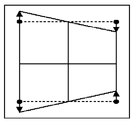
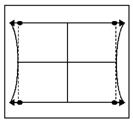
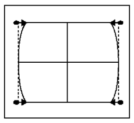
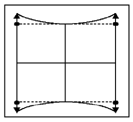
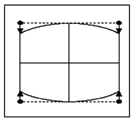
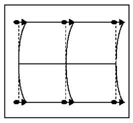
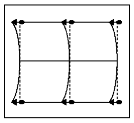

DATA POS
H :
Height rise point
Posision Buttons
N

13. Push the "TV/AV" button twice, and enter the "OSD POS" mode.
14. Adjust the position buttons so that the cross-cursor is aligned near cross-bar.
15. Push the "SET UP" button, and "N" button to store data.

16. Push the "0" of 10 key buttons, and return to Coarse Convergence Adjustment mode.

10.3. Coarse Convergence Adjustment mode

	MODE	SAMPLE DATA			DAC DATA UP	DAC DATA DOWN
1	STATIC	H	R	162		
			G	26		
			B	–83		
		V	R	28		
			G	30		
			B	38		
2	SIZE	H	R	–87		
			G	–23		
			B	–65		
		V	R	–35		
			G	–72		
			B	–41		
3	SKEW	H	R	–8		
			G	–4		
			B	7		
		V	R	–4		
			G	4		
			B	28		

	MODE	SAMPLE DATA			DAC DATA UP	DAC DATA DOWN
3	LINEARITY	H	R	–132		
			G	79		
			B	336		
4	KEYSTONE	V	R	262		
			G	+94		
			B	–67		
5	PIN	H	R	83		
			G	58		
			B	51		
		V	R	338		
			G	410		
			B	391		
6	CORNER	H	R	+21		
			G	–7		
			B	–67		

10.3.1. Green Coarse Convergence Adjustment

10.3.1.1. Reparation

Push the "SOUND" button, and select the Green Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Green" colour.

10.3.1.2. "G-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (V)".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame.

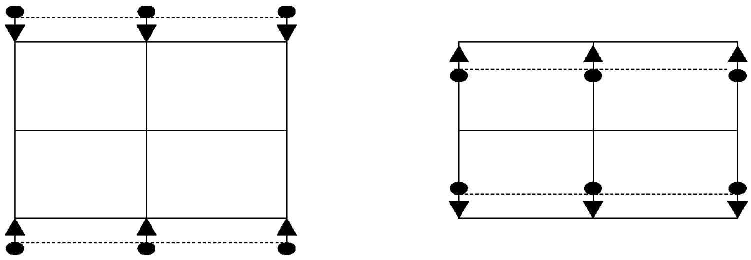


Fig. A : V–SIZE

10.3.1.3. "G-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (H)".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame.

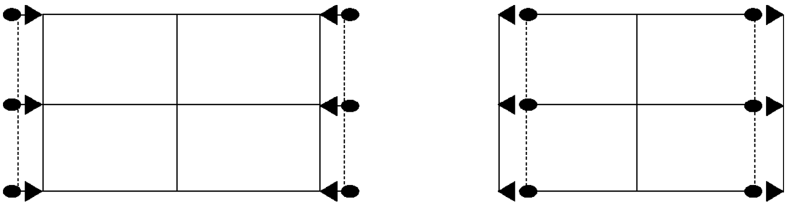


Fig. B : H–SIZE

10.3.1.4. "G-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "G-LINEAR".Push the "Volume up/down" buttons, and adjust the "G-LINEAR" to become the following figure.

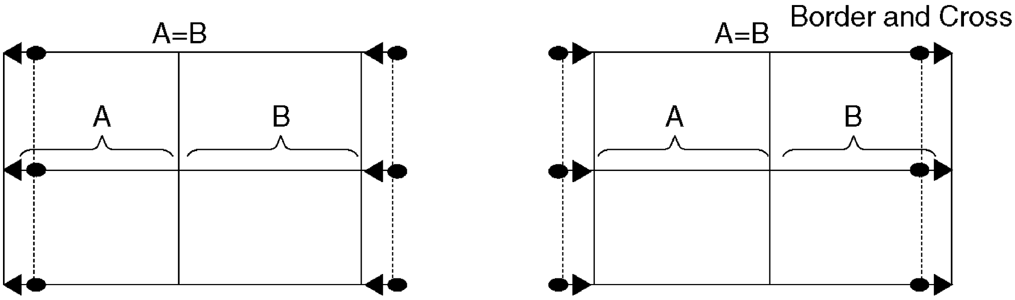


Fig.C : LINEAR

10.3.1.5. "G-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Channel up/down" buttons, and adjust the "G-PIN (V)" to become the following figure.

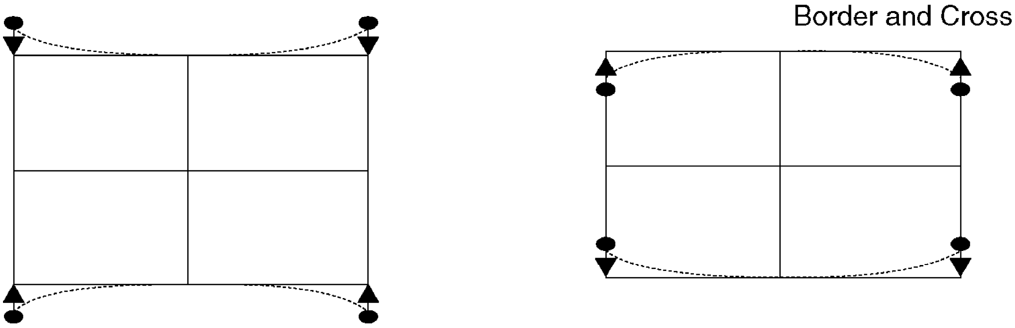


Fig.D : V-PIN

10.3.1.6. "G-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Volume up/down" buttons, and adjust the "G-PIN (H)" to become the following figure.

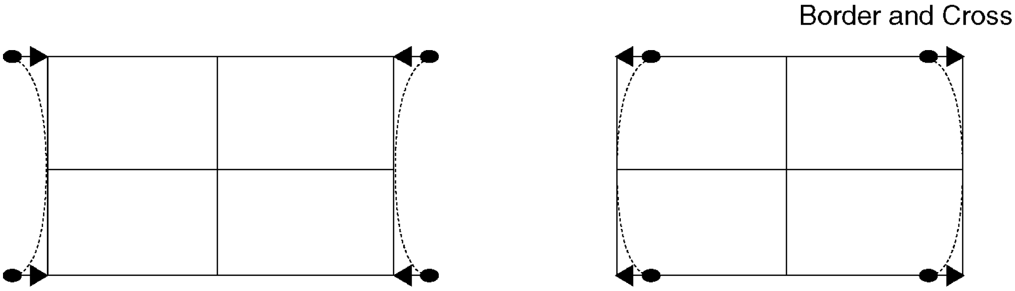


Fig.E : H-PIN

10.3.1.7. "G-CORNER" adjustment

Push the "TV/AV" buttons, and select the "G-CORNER".Push the "Volume up/down" buttons, and adjust the "G-CORNER" to become the following figure.

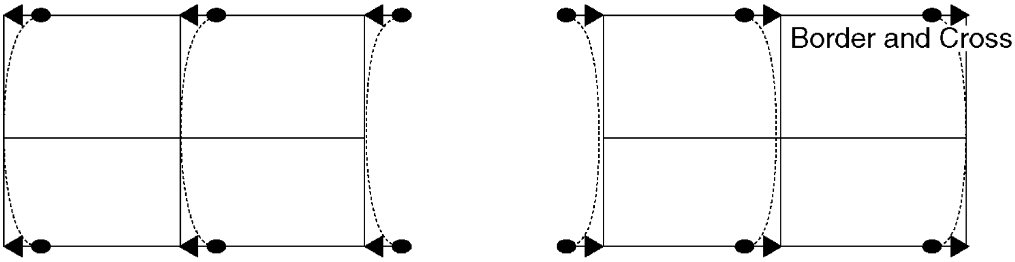


Fig.F : CORNER

10.3.1.8. "G-KEY" adjustment

Push the "TV/AV" buttons, and select the "G-KEY".Push the "Channel up/down" buttons, and adjust the "G-KEY" refer to following figure.

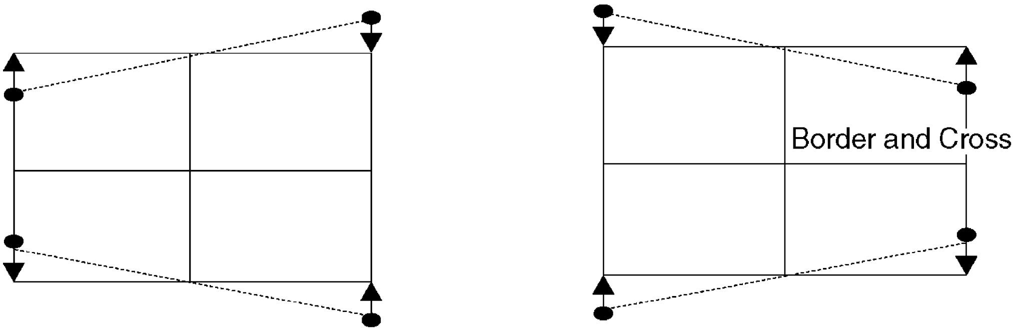


Fig.G : KEY

10.3.1.9. "G-STATIC" adjustment

Push the "TV/AV" buttons, and select the "G-STATIC".Push the "Channel/Volume up/down" buttons, and adjust "G-STATIC" so that Horizontal & Vertical center line is aligned with the bump in the screen center mark.

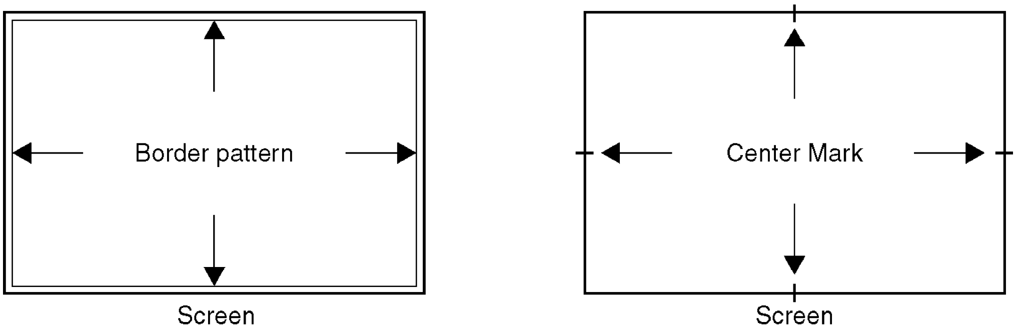


Fig.H STATIC

10.3.2. Red Coarse Convergence Adjustment

10.3.2.1. Reparation

Push the "SOUND" button, and select the Red Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Yellow" colour.Push the "POSITION" button, and adjust the "R-STATIC" so that the Redcolor of pattern is aligned with Green colour of pattern.

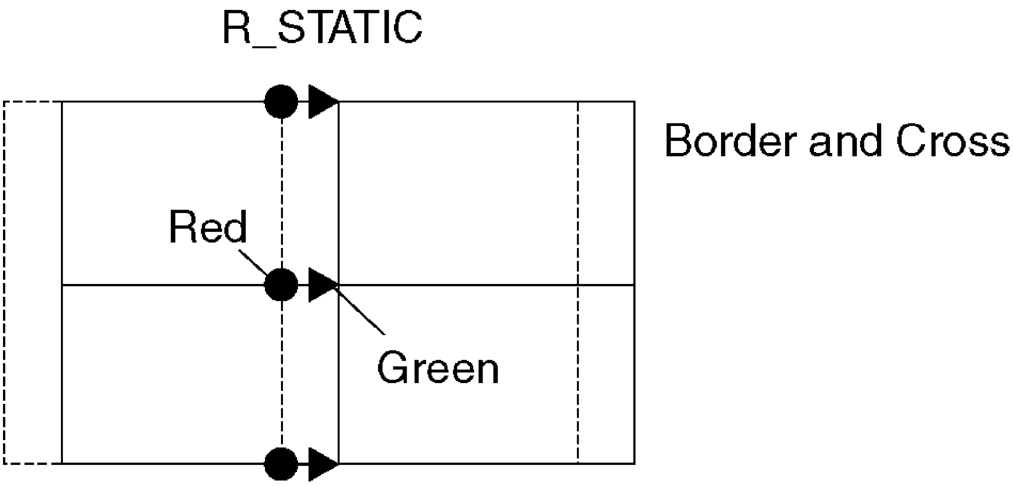


Fig.I : R-STATIC

10.3.2.2. "R-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to figure.)

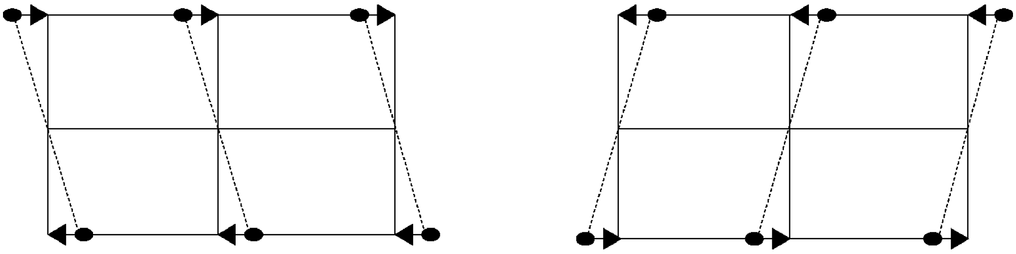


Fig.J : SKEW(V)

10.3.2.3. "R-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to figure.)

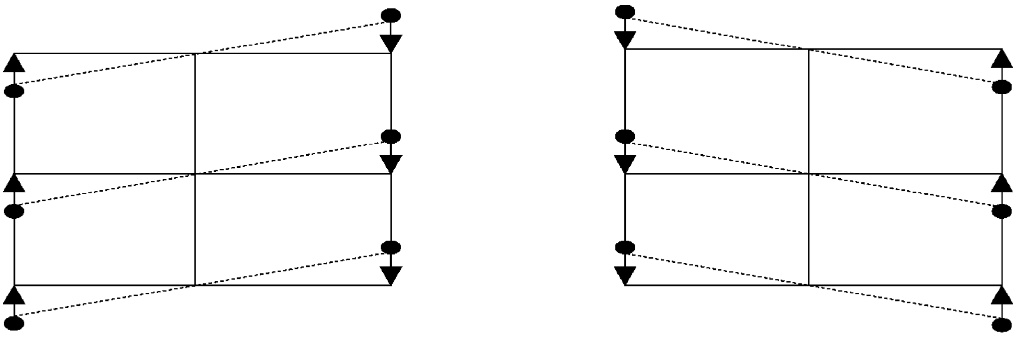


Fig.K : SKEW(H)

10.3.2.4. "R-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.2.5. "R-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.2.6. "R-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "R-LINEAR".Push the "Volume up/down" buttons, and adjust the "R-LINEAR". (Refer to Fig. C.)

10.3.2.7. "R-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Channel up/down" buttons, and adjust the "R-PIN (V)". (Refer to Fig. D.)

10.3.2.8. "R-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Volume up/down" buttons, and adjust the "R-PIN (H)". (Refer to Fig. E.)

10.3.2.9. "R-CORNER" adjustment

Push the "TV/AV" buttons, and select the "R-CORNER".Push the "Channel up/down" buttons, and adjust the "R-CORNER". (Refer to Fig. F.)

10.3.2.10. "R-KEY" adjustment

Push the "TV/AV" buttons, and select the "R-KEY".Push the "Channel up/down" buttons, and adjust the "R-KEY". (Refer to Fig. G.)

10.3.2.11. "R-STATIC" adjustment

Push the "TV/AV" buttons, and select the "R-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "R-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark.(Refer to Fig. H.)

10.3.3. Blue Coarse Convergence Adjustment

10.3.3.1. Reparation

Push the "SOUND" button, and select the Blue Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Cyan" colour.Push the "POSITION" button, and adjust the "B-STATIC" so that the Bluecolor of pattern is aligned with Green colour of pattern.

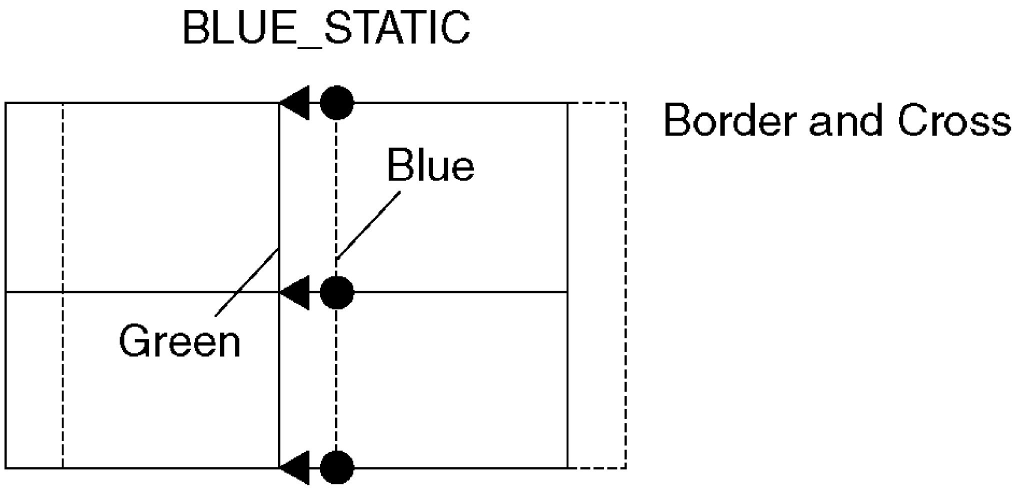


Fig.L : B-STATIC

10.3.3.2. "B-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to Fig. J.)

10.3.3.3. "B-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to Fig.K.)

10.3.3.4. "B-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.3.5. "B-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.3.6. "B-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "B-LINEAR".Push the "Volume up/down" buttons, and adjust the "B-LINEAR". (Refer to Fig. C.)

10.3.3.7. "B-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN".Push the "Channel up/down" buttons, and adjust the "B-PIN (V)" (Refer to Fig. D.)

10.3.3.8. "B-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN".Push the "Volume up/down" buttons, and adjust the "B-PIN (H)". (Refer to Fig. E.)

10.3.3.9. "B-CORNER" adjustment

Push the "TV/AV" buttons, and select the "B-CORNER".Push the "Channel up/down" buttons, and adjust the "B-CORNER". (Refer to Fig. F.)

10.3.3.10. "B-KEY" adjustment

Push the "TV/AV" buttons, and select the "B-KEY".Push the "Channel up/down" buttons, and adjust the "B-KEY". (Refer to Fig. G.)

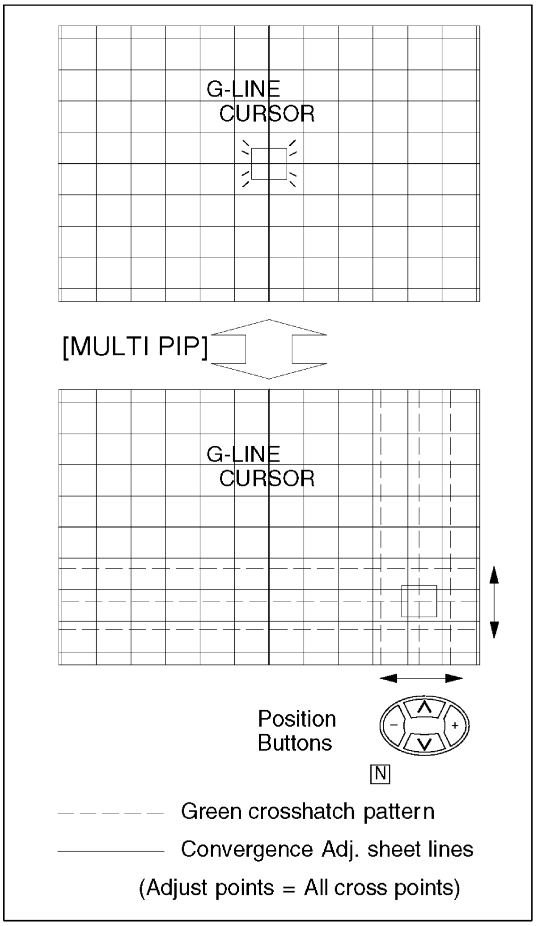
10.3.3.11. "B-STATIC" adjustment

Push the "TV/AV" buttons, and select the "B-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "B-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark.(Refer to Fig. H.)

10.4. Fine Convergence Adjustment

10.4.1. Green Convergence Adjustment

1. **Select the "G-LINE CURSOR" mode by pushing "TV/AV" button on the remote control**

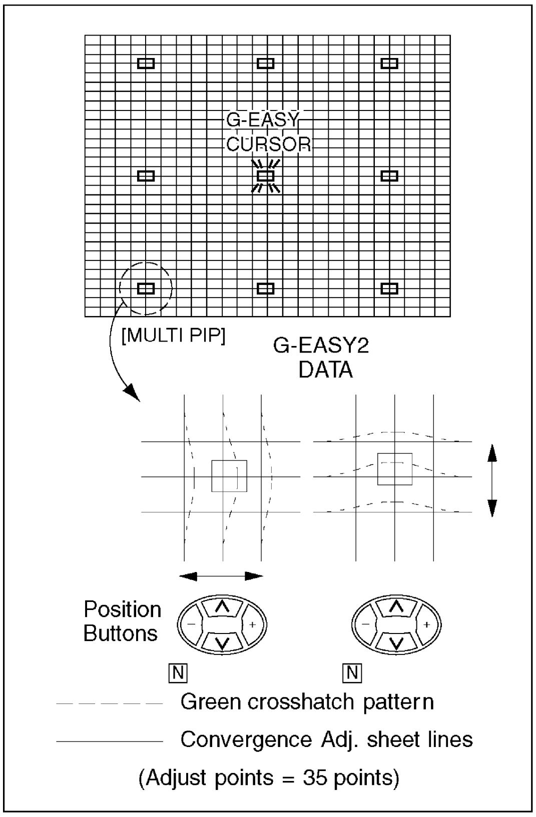

G-LINE CURSOR
[MULTI PIP]
G-LINE CURSOR
Position Buttons
N
Green crosshatch pattern
Convergence Adj. sheet lines
(Adjust points = All cross points)

2. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
3. Use the Position Buttons to adjust each point (line) so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
4. Push the "MULTI PIP" and switch from "G-LINE DATA" to "G-LINE CURSOR".
5. Repeat step 21~23 to adjust the vertical lines (13) and the horizontal lines (9).
6. Select the "G-EASY CURSOR" mode by pushing "TV/AV" button on the remote control.
7. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment point). Then use the "MULTI PIP" to change from "G-EASY CURSOR" to "G-EASY DATA".

8. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.

9. Push the "MULTI PIP" and with from "G-EASY DATA" to "G-EASY CURSOR".

10. Repeat step 7~9 to adjust the 9 adjustment points.


G-EASY CURSOR
[MULTI PIP]
G-EASY2 DATA
Position Buttons
N
N
Green crosshatch pattern
Convergence Adj. sheet lines
(Adjust points = 35 points)

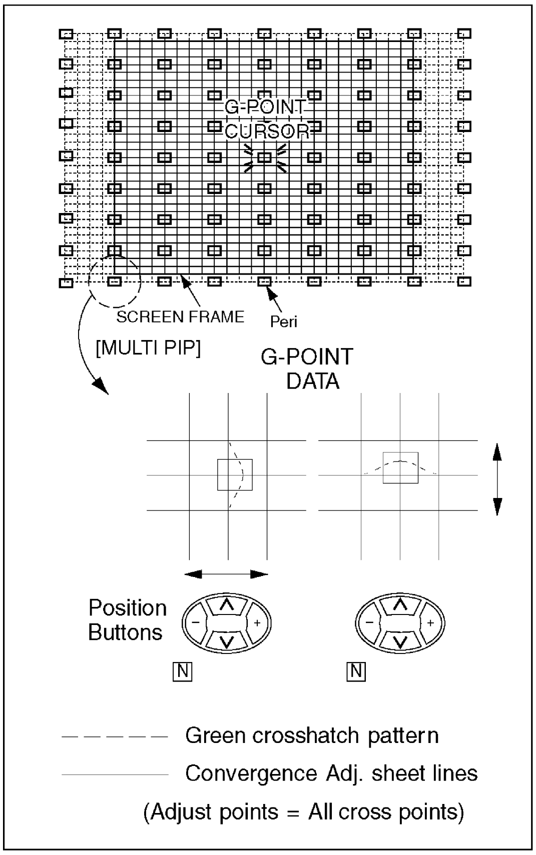
11. Select the "G-POINT CURSOR" mode by pushing "TV/AV" button on the remote control.

12. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".

13. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.

14. Push the "MULTI PIP" and switch from "G-POINT DATA" to "G-POINT CURSOR".

15. Repeat step 12-14 to adjust all of adjustment points.


G-POINT
CURSOR
SCREEN FRAME
Peri
[MULTI PIP]
G-POINT
DATA
Position
Buttons
N
N
Green crosshatch pattern
Convergence Adj. sheet lines
(Adjust points = All cross points)

16. Adjust the LINE, EASY and POINT DATA again viewing all over the screen.
If need the adjustment at the around of screen, select the "ORIGINAL" and adjust it.

17. To store the data after the Green Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button (pushing the "N" button will store the data in the E_2PROM).

18. Remove the Convergence Adjustment Sheet from the screen.

10.4.2. Red Convergence Adjustment

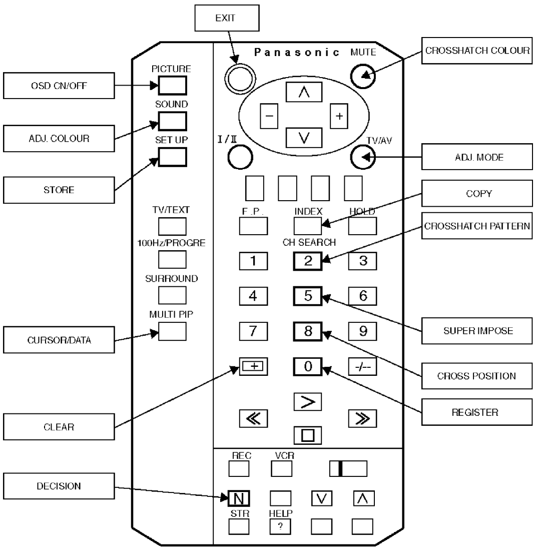
1. Push the "MUTE" button twice and change to the Red Adjustment of Yellow Colour.

2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Red Convergence Adjustment.

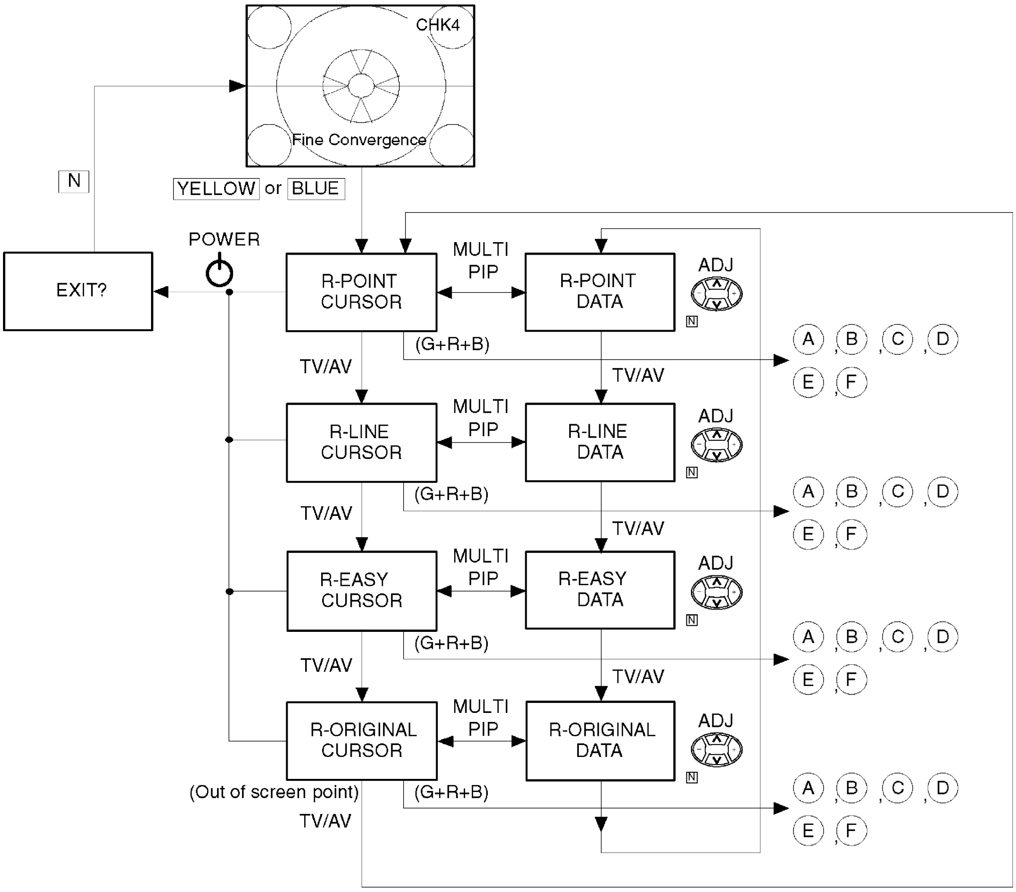
3. To store the data after the Red Convergence Adjustment has been completed, push the "MAIN MENU" button and then the "N" button.

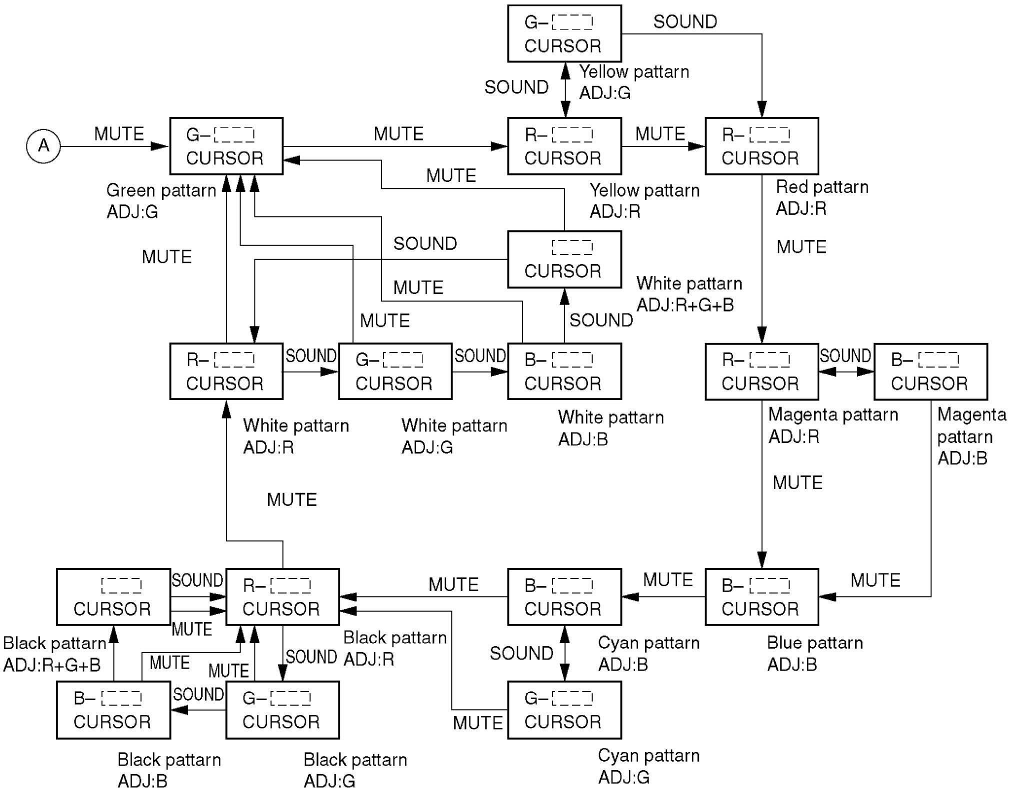
10.4.3. Blue Convergence Adjustment

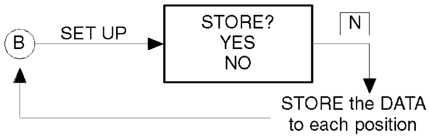
1. **Push the "MUTE" button twice and change to the Blue Adjustment of cyan Colour.**
2. **Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Blue Convergence Adjustment.**
3. **To store the data after the Blue Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button.**
4. **To switch from the Convergence Adjustment Mode to the Service Mode, press the Power button and then push the "N" button. Repeat the same adjustment after inputting the 60Hz (NTSC) signal.**

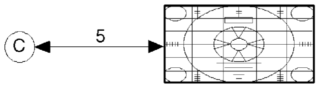

EXIT
Panasonic
MUTE
CROSSHATCH COLOUR
OSD CN/OFF
PICTURE
SOUND
ADJ. COLOUR
SET UP
STORE
I / II
TV/AV
ADJ. MODE
COPY
TV/TEXT
F .P .
INDEX
HOLD
CROSSHATCH PATTERN
100Hz/PROGRE
CH SEARCH
1
2
3
SURROUND
4
5
6
SUPER IMPOSE
MULTI PIP
CURSOR/DATA
7
8
9
0
-/--
CROSS POSITION
REGISTER
CLEAR
REC
VCR
DECISION
N
STR
HELP
?

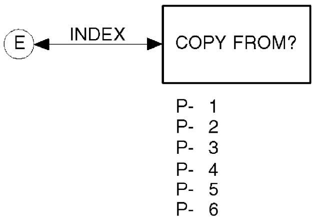
Fine Convergence Control Chart

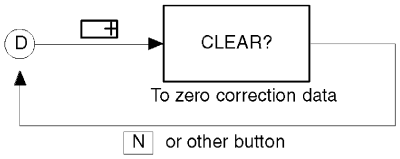

CHK4
Fine Convergence
N
YELLOW or BLUE
POWER
EXIT?
R-POINT CURSOR
MULTI PIP
R-POINT DATA
ADJ
N
(G+R+B)
A, B, C, D
E, F
TV/AV
TV/AV
R-LINE CURSOR
MULTI PIP
R-LINE DATA
ADJ
N
(G+R+B)
A, B, C, D
E, F
TV/AV
TV/AV
R-EASY CURSOR
MULTI PIP
R-EASY DATA
ADJ
N
(G+R+B)
A, B, C, D
E, F
TV/AV
TV/AV
R-ORIGINAL CURSOR
MULTI PIP
R-ORIGINAL DATA
ADJ
N
(Out of screen point)
(G+R+B)
A, B, C, D
E, F
TV/AV

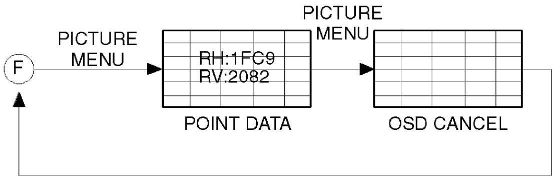

G– CURSOR
SOUND
SOUND
Yellow pattern ADJ:G
A
MUTE
G– CURSOR
MUTE
R– CURSOR
MUTE
R– CURSOR
Green pattern ADJ:G
MUTE
Yellow pattern ADJ:R
Red pattern ADJ:R
MUTE
SOUND
CURSOR
MUTE
MUTE
White pattern ADJ:R+G+B
SOUND
MUTE
R– CURSOR
SOUND
G– CURSOR
SOUND
B– CURSOR
R– CURSOR
SOUND
B– CURSOR
White pattern ADJ:R
White pattern ADJ:G
White pattern ADJ:B
Magenta pattarn ADJ:R
Magenta pattarn ADJ:B
MUTE
MUTE
CURSOR
SOUND
R– CURSOR
MUTE
B– CURSOR
MUTE
B– CURSOR
MUTE
MUTE
Black pattarn ADJ:R+G+B
MUTE
MUTE
SOUND
Black pattarn ADJ:R
SOUND
Cyan pattarn ADJ:B
Blue pattarn ADJ:B
B– CURSOR
SOUND
G– CURSOR
MUTE
G– CURSOR
Black pattarn ADJ:B
Black pattarn ADJ:G
Cyan pattarn ADJ:G


B
SET UP
STORE?
YES
NO
N
STORE the DATA
to each position

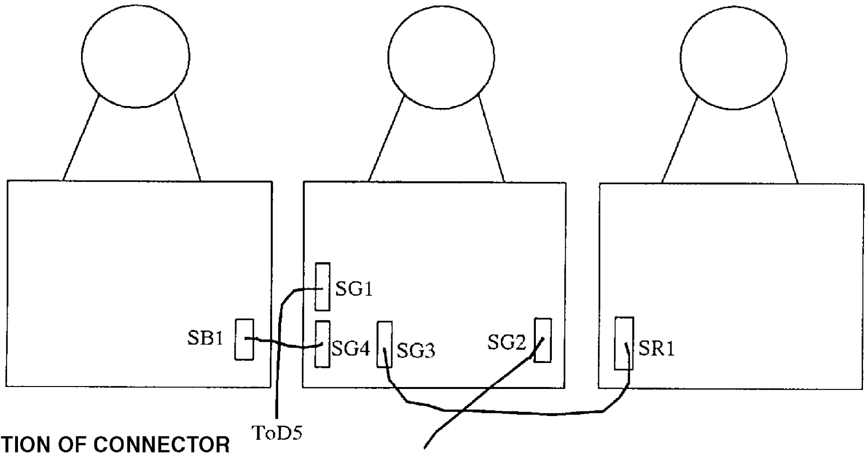



E
INDEX
COPY FROM?
P- 1
P- 2
P- 3
P- 4
P- 5
P- 6

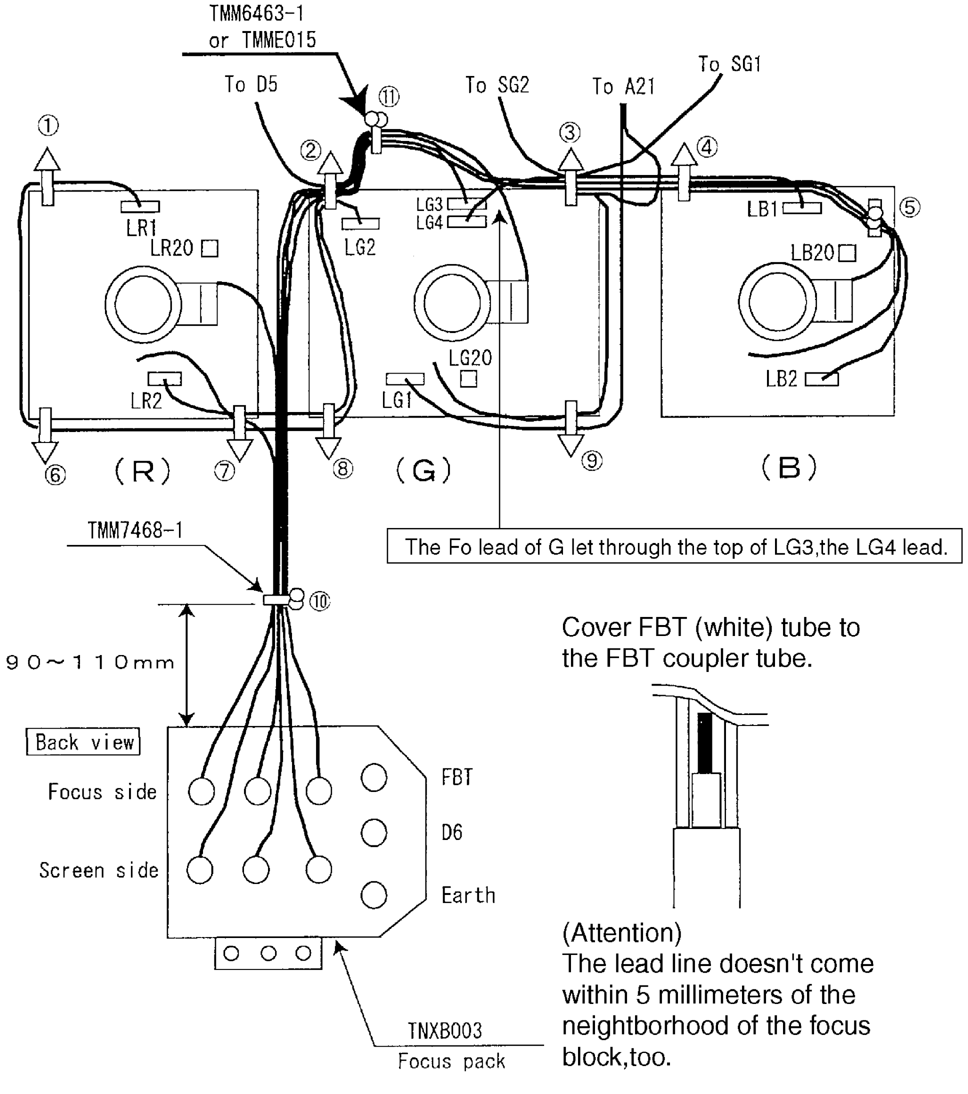

D
CLEAR?
To zero correction data
N
or other button


F
PICTURE
MENU
RH:1FC9
RV:2082
POINT DATA
PICTURE
MENU
OSD CANCEL

11. Location of Lead Wiring


SG1
SB1
SG4
SG3
SG2
SR1
ToD5
ToA21

INSERTION OF CONNECTOR
SB1, SG1, SG2, SG3, SG4, SR1


TMM6463-1
or TMME015
To D5
⑪
To SG2
To A21
To SG1
①
②
③
④
⑤
LR1
LR20
LG2
LG3
LG4
LB1
LB20
LG20
LR2
LG1
LB2
⑥
(R)
⑦
⑧
(G)
⑨
(B)
TMM7468-1
⑩
90~110mm
Back view
Focus side
Screen side
FBT
D6
Earth
TNXB003
Focus pack

The Fo lead of G let through the top of LG3,the LG4 lead.

Cover FBT (white) tube to the FBT coupler tube.

(Attention)
The lead line doesn't come within 5 millimeters of the neightborhood of the focus block,too.

INSERTION OF CONNECTOR
LR1, LR2, LG1, LG2, LG3, LG4, LG5, LG6, LG7, LB1, LB2,

LRGND1, LGGND1, LBGND1

CLAMP DOUBLE CLAMP : ◎

WIRES \ CLAMPER	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
SG2			●																	
SG1		●	●								●									
Focus (R)										●										
Focus (G)		●								●	●									
Focus (B)		●	●	●	●					●	●									
Screen (R)							●			●										
Screen (G)		●	●						●	●	●									
Screen (B)		●	●	●	●					●	●									
LR1~LG3	●	●				●	●	●			●									
LR2~A21		●	●				●	●			●									
LG1~A21									●											
LG4~LB1			●	●																
LG2~D5		●									●									
LB2				●	●															

NOTICE FOR WORE DRESSING

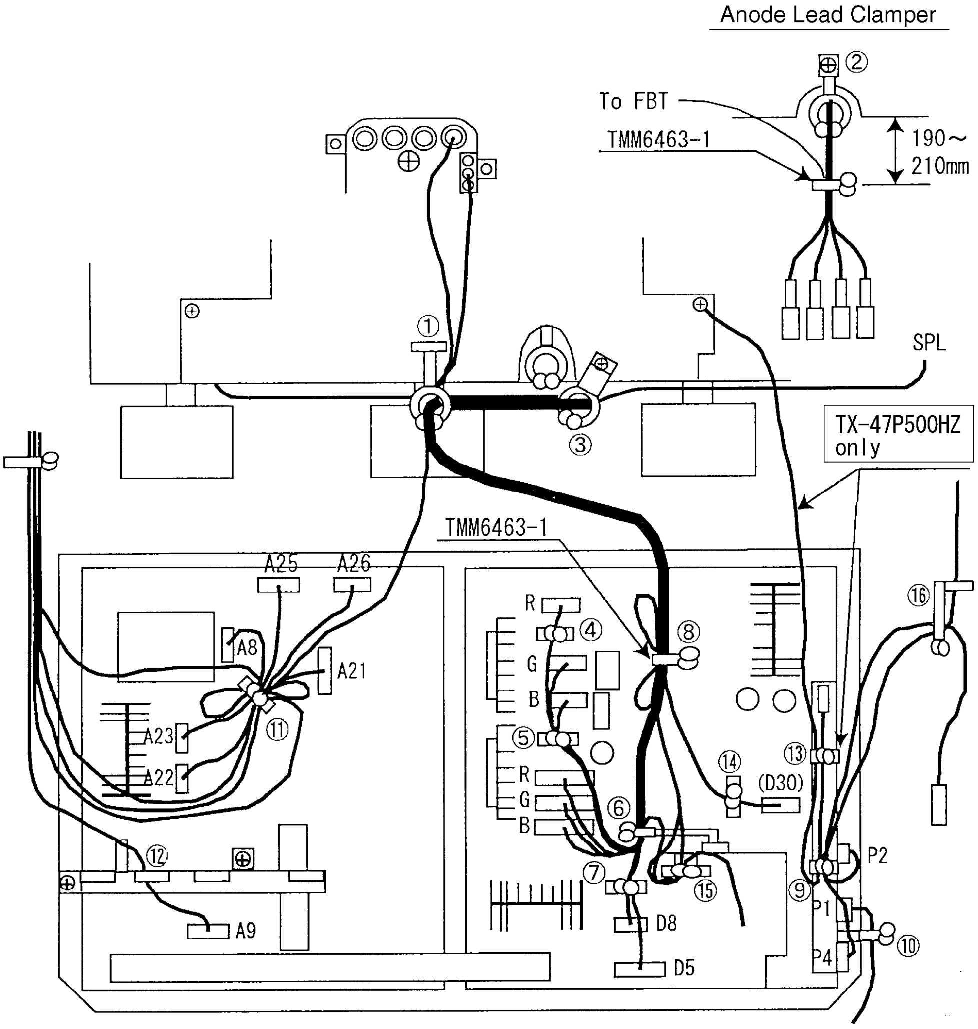
1. **Confirm that the lead line isn’t hitting the metallic part of the neck print after CRT neck print (R, G, B) insertion.**
2. **It decides to be permitted to insert the lead line (R, G, B) of the VM coil wherever of LG5, LG6, LG7 of the LG print.**
3. **It decides to be permitted to insert G, B of the DY lead in either.**

The Anode Lead

1. **It inserts Anode lead tip in the back to FBT (the fly background transformer), and it makes turn on the right and it locks it. (Three insertion positions are free).**
2. **Secure a safe space distance from the circumference part by equal to or more than 10 millimeters.**

Attention

1. **There is not sagging in Clamper ⑲-the D30 coupler pipe.**
2. **Drink a lead between P Prix metal fittings-the optical metal fittings in the New Zealand turning and use it.**


Anode Lead Clamper
②
To FBT
TMM6463-1
190~
210mm
SPL
①
③
TX-47P500HZ
only
TMM6463-1
A25
A26
A8
A21
⑪
A23
A22
⑫
A9
R
④
G
B
⑧
⑤
R
G
B
⑥
⑦
⑭
⑬
(D30)
⑮
D8
D5
⑯
P2
⑨
P1
P4
⑩

INSERTION OF CONNECTOR

A9, A21, A22, A23, A25, A26, Anode distributor (R, G, B, FBT), D5,
DY (R, G, B), CY (R, G, B),
D30, P1, P2, P4, Focus pack (Red)

CLAMP DOUBLE CLAMP : ◎

CLAMPER WIRES	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
A22~RSP											◎									
B~DY	●					●		●							●					
B~CY	●				●	●		●												
G~DY	●		●			●		●							●					
G~CY	●		●		●	●		●							●					
R~DY	●		●			●		◎							●					
R~CY	●		●	●	●	●		◎							●					
D8~Distributor	●					●	●													
M12~A25											●									
M12~A9												●								
M11~A26											●									
A23~LSP	●		●								◎									
LG2~D5	●		●			●	●	●												
FBT~Focus pack	●		●					●							●					
D30~Focus pack	●		●					●						●						
M1~P2									●							●				
Cabinet Earth~P4									●							●				
AC cord										●										
Pプリ金具~光学金具									●				◎							
A8~M13											●									
A21~LB2,LG1,LR2											◎									

TX-47P500HZ only

NOTICE FOR WIRE DRESSING

1. After insert R, G, B on CRT-print, confirm that wire should not touch to material parts of CRT-print.

12. Conductor Views

12.1. A-Board

12.2. D-Board

12.3. DG-Board

12.4. H-Board

12.5. LB-Board and LR-Board

12.6. LG-Board and M-Board

12.7. P-Board

12.8. SR-Board, SG-Board and SB-Board

12.9. U-Board

13. Block Diagram

13.1. Audio Block Diagram

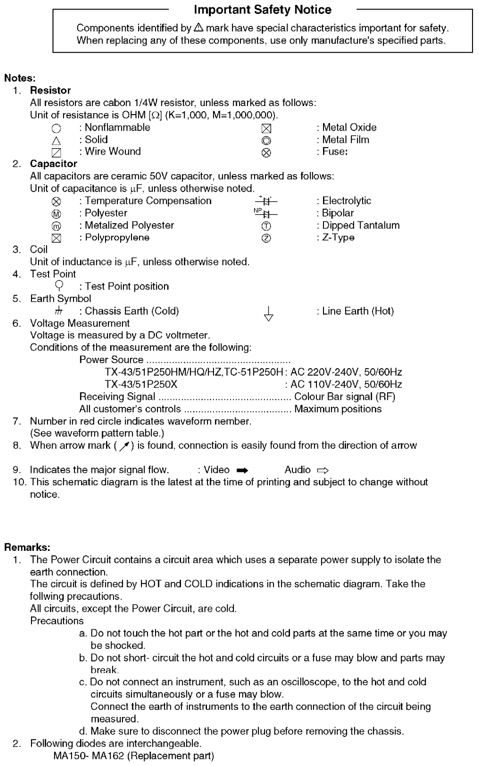
13.2. Video Block Diagram

13.3. Power Block Diagram

13.4. Control Block Diagram

14. Schematic Diagram

14.1. Schematic Diagram Notes



Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).

○	: Nonflammable	☒	: Metal Oxide
△	: Solid	◎	: Metal Film
⧄	: Wire Wound	⊗	: Fuse:

2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.

⊗	: Temperature Compensation	+ ⊣⊢	: Electrolytic
Ⓜ	: Polyester	NP ⊣⊢	: Bipolar
ⓜ	: Metalized Polyester	Ⓣ	: Dipped Tantalum
☒	: Polypropylene	ⓩ	: Z-Type

3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold)   ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source ....
   TX-43/51P250HM/HQ/HZ,TC-51P250H : AC 220V-240V, 50/60Hz
   TX-43/51P250X : AC 110V-240V, 50/60Hz
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

14.2. A-Board (1 of 4) Schematic Diagram

14.3. A-Board (2 of 4) Schematic Diagram

14.4. A-Board (3 of 4) Schematic Diagram

14.5. A-Board (4 of 4) Schematic Diagram

14.6. D-Board (1 of 2) Schematic Diagram

14.7. D-Board (2 of 2) Schematic Diagram

14.8. DG-Board (1 of 3) Schematic Diagram

14.9. DG-Board (2 of 3) Schematic Diagram

14.10. DG-Board (3 of 3) Schematic Diagram

14.11. H-Board Schematic Diagram

14.12. LR, LG and LB-Board Schematic Diagram

14.13. M-Board Schematic Diagram

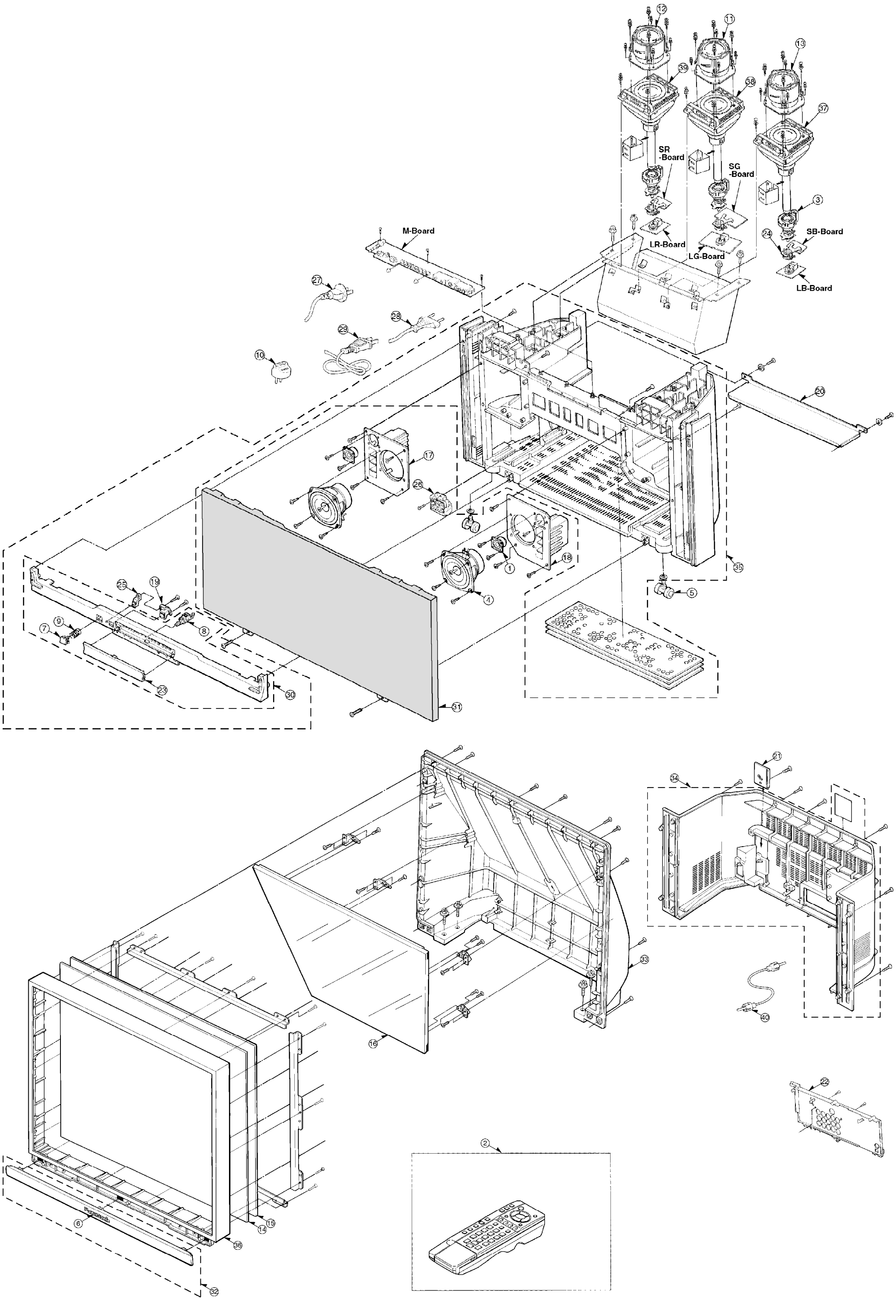
14.14. P-Board Schematic Diagram

14.15. SR, SG and SB-Board Schematic Diagram

14.16. U-Board Schematic Diagram

15. Parts location

Note:
The number on mechanical parts indicates Ref. No.
Mechanical Replacement Parts List


M-Board
SR -Board
SG -Board
LR-Board
LG-Board
SB-Board
LB-Board

16. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EAST6PH12A6	SPEAKER	2	
2	EUR511229	REMOTE CONTROL	1	
3	G0F100000004	DEFLECTION YOKE	3	⚠
	KFT7CP336F	HIGH VOLTAGE DIVISION	1	⚠
4	L0AA13A00001	SPEAKER(W00FER)	2	
5	TBLB0010	CASTER	4	
6	TBMA071	PANASONIC BADGE	1	
7	TBXA33501	POWER BUTTON	1	
8	TEK6940	DOOR SWITCH	1	
	TEKC011	DAMPER	1	
	TES6583	SPRING FOR TR	2	
9	TESA031	SPRING	1	
	THT1062	SCREW	6	
	THTA006Z	SCREW	20	
	THTA006Z	SCREW	15	
10	TJS2A8420	AC PLUG ADAPTOR	1	K2DR42D00001 TX-47P500X
11	TKGF0007	LENS (G)	1	
12	TKGF0013	LENS (R)	1	
13	TKGF0014	LENS (B)	1	
14	TKGH5060	SCREEN / (LENTICULAR)	1	
15	TKGH5061	SCREEN / (FRESNEL)	1	
16	TKGJ5048	MIRROR	1	
17	TKJC007	SPEAKER BOARD(LEFT)	1	
18	TKJC008	SPEAKER BOARD(RIGHT)	1	
19	TKKC5126	PANEL LIGHT	1	
20	TKKF5046-1	COVER	1	
	TKKH5061	COVER	2	
21	TKKL5088	AC CORD COVER	1	
22	TKP0AA4301	REAR TERMINAL BOARD	1	
23	TKPA55402	DOOR	1	
24	TLHX017	VM COIL	3	
	TMM14444	CLAMPER	1	
	TMM16452	CLAMPER	6	
	TMM16473-1	CLAMPER	4	
	TMM16480-1	CLAMPER	1	
	TMM16480-1	CLAMPER	2	
	TMM16497-1	CLAMPER	8	
	TMM6428-1	CLAMPER	1	
	TMM6463-1	CLAMPER	3	
	TMM6463-1	CLAMPER	1	
	TMM7464-2	CLAMPER	2	
	TMM7468-1	CLAMPER	1	
	TMM76430-1	CLAMPER	1	
	TMM76430-1	CLAMPER	2	
	TMME047	CLAMPER	1	
	TMMX027-2	HOLDER	1	
	TMW0A707-1	PC SUPPORT	1	
25	TMWJ017	LED HOLDER	1	
26	TNXB003	FOCUS BLOCK	1	D9ZZ00000075 ⚠
	TPCA79501	BOTTOM CARTON	1	
	TPCB20901	CARTON BOX	1	TX-47P500HM
	TPCB20903	CARTON BOX	1	TX-47P500HQ/HZ

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TPCB20904	CARTON BOX	1	TX-47P500X
	TPD169487	JOINT	4	
	TPD169564	JOINT	2	
	TPDA0360-2	CUSHION(BOTTOM)	1	
	TPDA0362-2	CUSHION	1	
	TPDA0363-1	CUSHION (REAR)	1	
	TPDA0621	CUSHION (TOP)	1	
	TPDA0622	CUSHION	1	
	TPDF0416	CUSHION (TOP)	1	
	TPDF0845	CUSHION	2	
	TPEH090	PROTECT COVER	1	
	TPEH132-1	SET COVER	1	
	TQBC0369	INSTRUCTION BOOK(ENGLISH)	1	
	TQBC0370	INSTRUCTION BOOK(ARABIA)	1	TX-47P500X
27	TSX1495	AC POWER CORD	1	TX-47P500HQ/HZ ⚠
28	TSX5132-2	AC POWER CORD	1	TX-47P500HM ⚠
29	TSX5134-3	AC POWER CORD	1	TX-47P500X ⚠
30	TTPA0209	CONTROL PANEL	1	
31	TTPA0211	SPEAKER GRILLE	1	
32	TTPA0229	ORNAMENT PANEL	1	TX-47P500HM/HQ/HZ
32	TTPA0230	ORNAMENT PANEL	1	TX-47P500X
33	TTUA0511	REAR COVER (TOP)	1	
34	TTUA0512	REAR COVER (BOTTOM)	1	TX-47P500HM
34	TTUA0513	REAR COVER (BOTTOM)	1	TX-47P500HQ/HZ
34	TTUA0514	REAR COVER (BOTTOM)	1	TX-47P500X
35	TTYA0479	CABINET (BOTTOM)	1	
36	TTYA0498	CABINET (TOP)	1	
37	TUA0A0500-1	CHASSIS FRAME	1	
38	TVVAB10GAV	PICTURE TUBE (B)	1	⚠
39	TVVAG10GAV	PICTURE TUBE (G)	1	⚠
40	TVVAR10GAV	PICTURE TUBE (R)	1	⚠
	TXAJS02ZEH	CABLE	1	
	TXFMZ010GFV	SCREEN HOLDER	6	
	XTB4+10J	SCREW	11	
	XTB4+12A	SCREW	3	
	XTB4+15A	SCREW	6	
	XTBT964	SCREW	30	
	XTV3+12A	SCREW	8	
	XTV3+12G	SCREW	5	
	XTV3+12GFZ	SCREW	3	
	XTV3+6J	SCREW	2	
	XTV3+8G	SCREW	6	
	XTW3+10T	SCREW	21	
	XTW3+8T	SCREW	2	
	XTW4+Z15D	SCREW	6	
	XWC8B	WASHER	1	
	XYN3+C8	SCREW	1	
	XYN3+F10	SCREW	2	
	XYN3+F12	SCREW	1	
	XYN3+F16	SCREW	4	
	XYN3+F8	SCREW	1	
	XYN3+J8	SCREW	25	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	XYN4+F14	**SCREW**	**12**	
	XYN5+F16	**SCREW**	**12**	
	XZBT6506	**POLY BAG**	**1**	

17. Electrical Replacement Parts List

17.1. Replacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide	J : ±5%
Metal FIlm	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polyprop	G : ±3pF
lene	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

17.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A1-A3	**TJSF19916**	**16P CONNECTOR**	**3**	**K1KA16A00119**
A4	**TJS1A8150**	**9P CONNECTOR**	**1**	**K1KA09B00019**
A5	**TJS3A9640**	**3P CONNECTOR**	**1**	**K1KA03A00171**
A6	**TJSF19916**	**16P CONNECTOR**	**1**	**K1KA16A00119**
A8	**TJS3A9680**	**7P CONNECTOR**	**1**	**K1KA07A00095**
A9	**TJS3A9650**	**4P CONNECTOR**	**1**	**K1KA04A00194**
A10,11	**TJSF17325**	**25P CONNECTOR**	**2**	**K1KB25B00006**
A17	**TJS3A9640**	**3P CONNECTOR**	**1**	**K1KA03A00171**
A21	**TJS3A9910**	**11P CONNECTOR**	**1**	**K1KA11A00059**
A22	**TJS3A9660**	**5P CONNECTOR**	**1**	**K1KA05A00138**
A23	**TJS3A9650**	**4P CONNECTOR**	**1**	**K1KA04A00194**
A25	**TJS3A9880**	**8P CONNECTOR**	**1**	**K1KA08A00179**
A26	**TJS3A9660**	**5P CONNECTOR**	**1**	**K1KA05A00138**
A31	**TJS3A9640**	**3P CONNECTOR**	**1**	**K1KA03A00171**
A44	**TJSF57570**	**70P CONNECTOR**	**1**	
A1101,02	**K1KA30A00128**	**30P CONNECTOR**	**2**	
C001	**ECJ2VF1C104Z**	**C 0.1UF, Z, 16V**	**1**	
C002	**ECA1HM100**	**E 10UF, 50V**	**1**	
C003	**ECJ2VF1C104Z**	**C 0.1UF, Z, 16V**	**1**	
C008	**ECJ2XB1H103K**	**C 0.01UF, K, 50V**	**1**	
C012	**ECJ2VF1H104Z**	**C 0.1UF, Z, 50V**	**1**	
C013	**ECA0JM102**	**E 1000UF, 6.3V**	**1**	
C014	**ECJ2VF1C104Z**	**C 0.1UF, Z, 16V**	**1**	
C018	**ECJ2VF1C104Z**	**C 0.1UF, Z, 16V**	**1**	
C020	**ECJ2VF1C104Z**	**C 0.1UF, Z, 16V**	**1**	
C022,23	**ECJ2VF1C104Z**	**C 0.1UF, Z, 16V**	**2**	
C024	**ECA1CM101**	**E 100UF, 16V**	**1**	
C025	**ERJ6GEY0R00**	**M 0 OHM,J,1/10W**	**1**	
C026	**ECJ2XB1H103K**	**C 0.01UF, K, 50V**	**1**	
C051	**ECEA1HN010U**	**E 1UF, 50V**	**1**	
C057	**ECJ2VF1C104Z**	**C 0.1UF, Z, 16V**	**1**	
C062,63	**ECJ2VF1C104Z**	**C 0.1UF, Z, 16V**	**2**	
C064	**ECA1HM100**	**E 10UF, 50V**	**1**	
C068	**ECJ2VF1C104Z**	**C 0.1UF, Z, 16V**	**1**	
C069	**ECA1CHG101**	**E 100UF, 16V**	**1**	
C070	**ECJ2VF1H104Z**	**C 0.1UF, Z, 50V**	**1**	
C071	**ECJ2VF1C104Z**	**C 0.1UF, Z, 16V**	**1**	
C081	**ECJ2VB1H273K**	**C 0.027UF, K, 50V**	**1**	
C351	**ECA2EM100**	**E 10UF, 250V**	**1**	
C353	**ECKD2H103PU**	**C 0.01UF, P,500V**	**1**	
C356	**ECKD3D102KBN**	**C 1000PF, K, 2KV**	**1**	
C357	**ECQB1H104KF**	**P 0.1UF, K, 50V**	**1**	
C360	**ECA1VM470**	**E 47UF, 35V**	**1**	
C361	**ECKF1H103ZF**	**C 0.01UF, Z, 50V**	**1**	
C364	**ECA1VM470**	**E 47UF, 35V**	**1**	
C365	**ECA2EM470**	**E 47UF, 250V**	**1**	
C371	**ECA2EM100**	**E 10UF, 250V**	**1**	
C373	**ECKD2H103PU**	**C 0.01UF, P,500V**	**1**	
C374	**ECKF1H103ZF**	**C 0.01UF, Z, 50V**	**1**	
C376	**ECKD3D102KBN**	**C 1000PF, K, 2KV**	**1**	
C377	**ECQB1H104KF**	**P 0.1UF, K, 50V**	**1**	
C380	**ECA1VM470**	**E 47UF, 35V**	**1**	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C381	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C391	ECA2EM100	E 10UF, 250V	1	
C393	ECKD2H103PU	C 0.01UF, P,500V	1	
C396	ECKD3D102KBN	C 1000PF, K, 2KV	1	
C397	ECQB1H104KF	P 0.1UF, K, 50V	1	
C451	ECA1VM470	E 47UF, 35V	1	
C452,53	ECA1VM471	E 470UF, 35V	2	
C455	ECEA1CN220U	E 22UF, 16V	1	
C456	ECQB1224KF	P 0.22UF, 100V	1	
C460	ECA1HM100	E 10UF, 50V	1	
C461	ECA1HM102	E 1000UF, 50V	1	
C462	ECQV1H104JM	P 0.1UF, J, 50V	1	
C463	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C464	ECJ2XC1H471J	C 470PF, J, 50V	1	
C475	ECJ2XC1H151J	C 150PF, J, 50V	1	ECUM1H151JCN
C476	ECHS1H102FZ	P 1000PF, F, 50V	1	
C482	ECA1CM102	E 1000UF, 16V	1	
C490	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C502	ECA1VM101	E 100UF, 35V	1	
C503	ECQV1H104JM	P 0.1UF, J, 50V	1	
C504	ECKD2H102KB2	C 1000PF, K,500V	1	
C505	ECA1HM471	E 470UF, 50V	1	
C510	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C511	ECCD3F181KGE	C 270PF, K, 2KV	1	
C512	ECWH20272JVY	P 2700PF, J, 2KV	1	
C513	ECQF4103JZ	P 0.01UF, J,400V	1	
C514	ECWH20272JVY	P 2700PF, J, 2KV	1	
C515	ECWF2474JSR	P 0.47UF, J,250V	1	
C516	ECWH20272JVY	P 2700PF, J, 2KV	1	
C517,18	ECKD3D152JBP	C 1500PF, J, 2KV	2	
C519	ECQB1H393JF	P 0.039UF, J, 50V	1	
C520	ECA2EM470	E 47UF, 250V	1	
C521	ECKD2H102KB2	C 1000PF, K,500V	1	
C522	ECA160V33U	E 33UF, 160V	1	
C523	ECA1HM470	E 47UF, 50V	1	
C524	ECKD2H392KB2	C 3900PF, K,500V	1	
C525	ECKD2H122KB2	C 1200PF, K,500V	1	
C526	ERDS2TC0	C 0 OHM, 1/4W	1	
C531	ECKD2H101KB2	C 100PF, K,500V	1	
C533	ECQF4103JZ	P 0.01UF, J,400V	1	
C534	ECQF6682JZ	P 6800PF, J,630V	1	
C536	ECWH20272JVY	P 2700PF, J, 2KV	1	
C701	ECKD3D271KBP	C 270PF, K, 2KV	1	
C702	ECQE2824KF	P 0.82UF, J,250V	1	
C704,05	ECQE1106KF	P 10UF, K,250V	2	
C802-04	ECKDAE472ZE	C 4700PF, Z,	3	
C805,06	ECQU2A224MN	P 0.22UF, M,250V	2	⚠
C807	ECKCNA332MEB	C 3300PF, M,	1	⚠
C808	ECA1VM221	E 220UF, 35V	1	
C809	ECKCNA332MEB	C 3300PF, M,	1	⚠
C812	EC0S2EP471BB	E 470UF, 250V	1	TX-47P500X
C813	ECKD3D681KBP	C 680PF, K, 2KV	1	
C814	EC0S2EP471BB	E 470UF, 250V	1	TX-47P500X

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C815	ECKD3D681KBP	C 680PF, K, 2KV	1	
C816,17	ECKCNA471MBB	C 470PF, M.	2	ECKDNA471MB ⚠
C819	ECKD2H681KB2	C 680PF, K,500V	1	
C820	EC0S2EP471BB	E 470UF, 250V	1	TX-47P500X
C820	ECOS2GP221BB	E 220UF, 400V	1	TX-47P500HM/HQ/HZ
C822	ECOS2GP221BB	E 220UF, 400V	1	TX-47P500HM/HQ/HZ
C822	EC0S2EP471BB	E 470UF, 250V	1	TX-47P500X
C823	ECQF4333JZ	P 0.033UF, J,400V	1	
C829	ECQB1H681JF	P 680PF, J, 50V	1	
C832	ECKD3D102KBP	C 1000PF, K, 2KV	1	
C833	EETHC2C102B	E 1000UF, 160V	1	
C837	EEUFC1E272	E 2700UF, 25V	1	
C839	ECKD3A151KBP	C 150PF, K, 1KV	1	
C840	EEUFC1E821	E 820UF, 25V	1	
C841	EEUFC1E272	E 2700UF, 25V	1	
C842	ECKD3A331KBP	C 330PF, K, 1KV	1	
C859	ECA1HM222	E 2200UF, 50V	1	
C860	ECKD2H471KB2	C 470PF, K,500V	1	
C861	ECA1HM102	E 1000UF, 50V	1	
C862	ECA1EM222	E 2200UF, 25V	1	
C863,64	ECKD3A472KBP	C 4700PF, K, 1KV	2	TX-47P500X
C865,66	ECA2WHG4R7	E 4.7UF, 450V	2	TX-47P500X
C867	ECQB1H473JF	P 0.047UF, J, 50V	1	TX-47P500X
C868	ECQE2A473KF	P 0.047UF, K,250V	1	TX-47P500X
C869	ECA0JM331	E 330UF, 6.3V	1	
C870	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C872	ECA1EM471	E 470UF, 25V	1	
C873	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C874	ECKCNA222MEB	C 2200PF, M	1	⚠
C876	ECJ2VF1H223Z	C 0.022UF, Z, 50V	1	
C878	ECQU2A224MN	P 0.22UF, M,250V	1	⚠
C880	ECA1EM472	E 4700UF, 25V	1	
C883	ECA2WHG100	E 10UF, 450V	1	
C884	ECQV1H104JM	P 0.1UF, J, 50V	1	
C885	ECKF1H101KB	C 100PF, K, 50V	1	
C886	ECCD3D270KGE	C 27PF, K, 2KV	1	
C888	ECKD3A392KBN	C 3900PF, K, 1KV	1	
C889	ECA1CM222	E 2200UF, 16V	1	
C890	ECKD2H102KB2	C 1000PF, K,500V	1	
C891	ECA1CM471	E 470UF, 16V	1	
C893	ECKD3D681KBP	C 680PF, K, 2KV	1	
C894	ECA1VMH470	E 47UF, 35V	1	
C895	ECA1HMH100	E 10UF, 50V	1	
C1014	ECA1CM101	E 100UF, 16V	1	
C1040	ECQB1H223JF	P 0.022UF, J, 50V	1	
C1041	ECA1HM470	E 47UF, 50V	1	
C1043	ECKF1H101KB	C 100PF, K, 50V	1	
C1054	ECCF1H101J	C 100PF, J, 50V	1	
C1101	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1102	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1103-09	ECJ2VF1C104Z	C 0.1UF, Z, 16V	7	
C1112	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1115	ECJ2VB1C104K	C 0.1UF, K, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1116,17	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1118	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C1119-29	ECJ2VF1C104Z	C 0.1UF, Z, 16V	11	
C1130	EEVHB0G221	E 220UF, 4V	1	
C1131,32	ECJ2XC1H220J	C 22UF, J, 50V	2	ECUM1H220JCN
C1133-36	ECJ2VF1C104Z	C 0.1UF, Z, 16V	4	
C1137	EEVHB0G221	E 220UF, 4V	1	
C1140	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C1142	ECJ2XC1H151J	C 150PF, J, 50V	1	ECUM1H151JCN
C1144	ECJ2XG1H101J	C 100PF, J, 50V	1	
C1146	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1147	ECA1CM101	E 100UF, 16V	1	
C1148	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1150,51	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C1152,53	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C1154	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1156	ECA1HM100	E 10UF, 50V	1	
C1157,58	TCUY0J335MBM	C 3.3UF, 6.3V	2	F1K0J335A003
C1159,60	EEVHB1C100	E 10UF, 16V	2	
C1161	EEVHB0G221	E 220UF, 4V	1	
C1162	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1163	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1164	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1165	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1166	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1167	EEVHB1C101	E 100UF, 16V	1	EEVHB1C101P
C1168	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1170	ECEA1EKN100	E 10UF, 25V	1	
C1251	ECA1CM101	E 100UF, 16V	1	
C1252	ECA1HM100	E 10UF, 50V	1	
C1253,54	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C1255	ECA1VM470	E 47UF, 35V	1	
C1290	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1291	ECA1CM471	E 470UF, 16V	1	
C1292,93	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1294	ECA1CM101	E 100UF, 16V	1	
C1295	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1296	ECA1CM471	E 470UF, 16V	1	
C1300	ECJ1VC1H120J	C 12PF, J, 50V	1	
C1302	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1303	ECJ1VC1H120J	C 12PF, J, 50V	1	
C1306	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1307	ECJ1XC1H180J	C 18PF, J, 50V	1	ECUX1H180JCV
C1309	ECJ1XC1H181J	C 180PF, J, 50V	1	
C1310	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1312	ECJ1XC1H181J	C 180PF, J, 50V	1	
C1313	TACCN0J105KT	C 1UF, 6.3V	1	
C1315	TACCN0J105KT	C 1UF, 6.3V	1	
C1316-18	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1319	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1320	ECJ1XC1H060D	C 6PF, D, 50V	1	ECUX1H060DCV
C1322-34	ECJ2VF1C105Z	C 1UF, Z, 16V	13	
C1335	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1336	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1337-41	ECJ2VF1C105Z	C 1UF, Z, 16V	5	
C1342	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1344-54	ECJ2VF1C105Z	C 1UF, Z, 16V	11	
C1355,56	TCUY0J335MBM	C 3.3UF, 6.3V	2	F1K0J335A003
C1357	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1358	ECJ1VB1H182K	C 1800PF, K, 50V	1	
C1359	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C1360	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1361	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1362	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1363	ECJ1XC1H102J	C 1000PF, J, 50V	1	ECUX1H102JCV
C1364	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1365	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1367	TACCN0J105KT	C 1UF, 6.3V	1	
C1370	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1371	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1372	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1373	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1374	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C1376	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1377	ECJ1XB1E393K	C 0.039UF, K, 16V	1	
C1378	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C1379	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C1380	TACCN0J105KT	C 1UF, 6.3V	1	
C1381	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1382	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C1383	TACCN0J105KT	C 1UF, 6.3V	1	
C1384	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1385	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1386,87	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C1389	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1390,91	TACCN0J105KT	C 1UF, 6.3V	2	
C1392	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1394	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1395	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1396	EEVHB0G221	E 220UF, 4V	1	
C1397	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1398,99	ECJ1VC1H120J	C 12PF, J, 50V	2	
C1400	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1401	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1404	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1405	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1411-13	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1414	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1415	ECJ1XC1H060D	C 6PF, D, 50V	1	ECUX1H060DCV
C1417-22	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C1429	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1430	ECJ1XC1H181J	C 180PF, J, 50V	1	
C1431-33	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1435	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1437	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1440	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1442	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C1443	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1444,45	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C1448	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1449	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1450-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1455-58	ECJ2VB1C104K	C 0.1UF, K, 16V	4	
C1460	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1462	ECJ1VB1H332K	C 3300PF, K, 50V	1	
C1464	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1465	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1466	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1467	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1471	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1472	ECJ1XC1H680J	C 68PF, J, 50V	1	ECUX1H680JCV
C1473-75	ECJ2VB1C104K	C 0.1UF, K, 16V	3	
C1477	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1478	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1479,80	EEVHP1C100	E 10UF, 16V	2	
C1481,82	TACCN0J105KT	C 1UF, 6.3V	2	
C1483	EEVHP1E4R7	E 4.7UF, 25V	1	
C1484,85	EEVHP1C100	E 10UF, 16V	2	
C1489	TACCN0J105KT	C 1UF, 6.3V	1	
C1493	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1494,95	EEVHB0G221	E 220UF, 4V	2	
C1496	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1498	EEVHB0G221	E 220UF, 4V	1	
C1499,00	EEVHB0J101	E 100UF, 6.3V	2	EEVHB0J101P
C1501	EEVHB1C470	E 47UF, 16V	1	
C1502,03	EEVHB0J101	E 100UF, 6.3V	2	EEVHB0J101P
C1504	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1505-07	EEVHB0G221	E 220UF, 4V	3	
C1508	EEVHB1C100	E 10UF, 16V	1	
C1510,11	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C1513-15	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C1516	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1520	EEVHB0G221	E 220UF, 4V	1	
C1521	EEVHB1C470	E 47UF, 16V	1	
C1522	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1523,24	TACCN0J105KT	C 1UF, 6.3V	2	
C1525	EEVHB1C470	E 47UF, 16V	1	
C1526	EEVHB0G221	E 220UF, 4V	1	
C1527	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1530	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1531,32	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C1534	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1535-38	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C1539	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1540	EEVHB0G221	E 220UF, 4V	1	
C1543	ECA1HM100	E 10UF, 50V	1	
C1544	ECA1CM101	E 100UF, 16V	1	
C1550,51	ECA1CM101	E 100UF, 16V	2	
C1564,65	ECA1HM4R7	E 4.7UF, 50V	2	
C1566	ECA1HM220	E 22UF, 50V	1	
C1568,69	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C1708,09	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1710-12	EEVHB1C100	E 10UF, 16V	3	
C1715	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1718	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1721	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C1725	ECJ1XC1H820J	C 82PF, J, 50V	1	ECUX1H820JCV
C1726,27	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C1732	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1733	ECJ2VB1C224K	C 0.22UF, K, 16V	1	
C1737,38	ECJ2VB1C224K	C 0.22UF, K, 16V	2	
C1740	TCUY1C225ZFN	C 2.2UF, 16V	1	F1J1C225A083
C1741	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1743	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1746	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1748	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1749	ECJ1VF1H333Z	C 0.033UF, Z, 50V	1	
C1750	EEVHB1C470	E 47UF, 16V	1	
C1751	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1752	TCUY1C225ZFN	C 2.2UF, 16V	1	F1J1C225A083
C1753-56	ECJ1VB1H103K	C 0.01UF, K, 50V	4	
C1760	EEVHB1C470	E 47UF, 16V	1	
C1761	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1768	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1772	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1773-75	EEVHB1C100	E 10UF, 16V	3	
C1780-82	EEVHB1C100	E 10UF, 16V	3	
C1783	ECJ2VB1C224K	C 0.22UF, K, 16V	1	
C1802	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1804	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1805	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1806	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1811	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1813	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1816-18	EEVHB1C470	E 47UF, 16V	3	
C1819,20	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C1822	EEVHB1C470	E 47UF, 16V	1	
C2007	ECJ2XC1H560J	C 56PF, J, 50V	1	ECUM1H560JCN
C2008,09	ECJ2XC1H470J	C 47PF, J, 50V	2	ECUM1H470JCN
C2010	ECJ2XC1H560J	C 56PF, J, 50V	1	ECUM1H560JCN
C2011	ECJ2XC1H070D	C 7PF, D, 50V	1	ECUM1H070DCN
C2014	ECJ2XC1H010C	C 1PF, C, 50V	1	ECUM1H010CCN
C2015	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2016	ECA1CM101	E 100UF, 16V	1	
C2017	ECJ2XC1H010C	C 1PF, C, 50V	1	ECUM1H010CCN
C2024	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C2025	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2027	ECA1HM100	E 10UF, 50V	1	
C2028	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2029	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2030	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2031	ECA1CM101	E 100UF, 16V	1	
C2032	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2033	ECA1HM100	E 10UF, 50V	1	
C2034,35	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C2037	ECJ2VF1C105Z	C 1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2038	ECA1HM100	E 10UF, 50V	1	
C2039	ECA1CM101	E 100UF, 16V	1	
C2040	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2041	ECA1HM3R3	E 3.3UF, 50V	1	
C2042-45	ECJ2XB1H102K	C 1000PF, K, 50V	4	
C2224,25	ECEA1HKA100	E 10UF, 50V	2	
C2290	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2291	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2292	ECA0JM222	E 2200UF, 6.3V	1	
C2293	ECA1VM470	E 47UF, 35V	1	
C2294,95	ECA1HM221	E 220UF, 50V	2	
C2296	ECA1CM101	E 100UF, 16V	1	
C2297	ECKF1H472KB	C 4700PF, K, 50V	1	
C2304	ECA1HHG100	E 10UF, 50V	1	
C2305-07	ECA1VM101	E 100UF, 35V	3	
C2308	ECA1HM100	E 10UF, 50V	1	
C2309,10	ECA1VM102	E 1000UF, 35V	2	
C2312	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2313,14	ECQB1H272JF	P 2700PF, J, 50V	2	
C2315	ECA1HM102	E 1000UF, 50V	1	
C2316	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2317	ECA1HM4R7	E 4.7UF, 50V	1	
C2318	ECA1HHG220	E 22UF, 50V	1	
C2319	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C2320	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2321	ECA1CM471	E 470UF, 16V	1	
C2324	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C2325	ECA1HM4R7	E 4.7UF, 50V	1	
C2326	ECJ2VB1H332K	C 3300PF, K, 50V	1	
C2327	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C2328-31	ECJ2XC1H102J	C 1000PF, J, 50V	4	ECUM1H102JCN
C2332	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C2333	ECA50YT2R2K	E 2.2UF, 50V	1	
C2334	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2335	ECA50YT2R2K	E 2.2UF, 50V	1	
C2336	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2337	ECA1CM470	E 47UF, 16V	1	
C2338,39	ECA1HM221	E 220UF, 50V	2	
C2340	ECA1CM101	E 100UF, 16V	1	
C2341	ECA1HM220	E 22UF, 50V	1	
C2342	ECA1CM101	E 100UF, 16V	1	
C2343	ECA1HM100	E 10UF, 50V	1	
C2344,45	ECJ2XB1H472K	C 4700PF, K, 50V	2	
C2349	ECQV1H105JM	P 1UF, J, 50V	1	
C2351	ECA1CM471	E 470UF, 16V	1	
C2352	ECEA1HN2R2U	E 2.2UF, 50V	1	
C2354	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2355	ECQV1H105JM	P 1UF, J, 50V	1	
C2356	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2359	ECA1HM100	E 10UF, 50V	1	
C2372,73	ECEA1HNR33U	E 0.33UF, 50V	2	
C2378	ECA0JM222	E 2200UF, 6.3V	1	
C2379	ECA1CM101	E 100UF, 16V	1	
C2381	ECA1HM010	E 1UF, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2382	ECKF1H472KB	C 4700PF, K, 50V	1	
C2385	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2587	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2590	ECA1CM471	E 470UF, 16V	1	
C2702	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2703	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2704	ECA1EM471	E 470UF, 25V	1	
C2707	ECA1CHG471	E 470UF, 16V	1	
C2708	EEUFC1A471	E 470UF, 10V	1	
C2711	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2713	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2716	EEUFC1A471	E 470UF, 10V	1	
C2719,20	ECA1CM471	E 470UF, 16V	2	
C2722,23	ECJ2VF1H104Z	C 0.1UF, Z, 50V	2	
C2726	ECA1EHG471	E 470UF, 25V	1	
C2730,31	EEUFC1E471	E 470UF, 25V	2	
C2732	EEUFC1A471	E 470UF, 10V	1	
C2733	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2734	ECA1EM471	E 470UF, 25V	1	
C2737	ECA1CM471	E 470UF, 16V	1	
C2738	ECA1CM101	E 100UF, 16V	1	
C2739	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2740	ECA1CM471	E 470UF, 16V	1	
C2750,51	TACCN0J105KT	C 1UF, 6.3V	2	
C2761	ECJ2XC1H101J	C 100PF, J, 50V	1	
C2901-03	ECKF1H103ZF	C 0.01UF, Z, 50V	3	
C2904	ECA1CM101	E 100UF, 16V	1	
C2905	ECA1VM101	E 100UF, 35V	1	
C2906	ECA1CM101	E 100UF, 16V	1	
C2907	ECCF1H121JC	C 120PF, J, 50V	1	ECCF1H121JC4
C2908	ECA1VM101	E 100UF, 35V	1	
C2909,10	ECA1HM100	E 10UF, 50V	2	
C2913	ECQM2103KZ	P 0.01UF, K,200V	1	
C2914	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2915	ECQM2103KZ	P 0.01UF, K,200V	1	
C2916	ECA2AM100	E 10UF, 100V	1	
C2917	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2918	ECA1CM101	E 100UF, 16V	1	
C2919	ECA2CM100	E 10UF, 160V	1	
C2920	ECA1CM101	E 100UF, 16V	1	
C2921	ECA1CM221	E 220UF, 16V	1	
C2943	ECQM2103KZ	P 0.01UF, K,200V	1	
C2944	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2945	ECQM2103KZ	P 0.01UF, K,200V	1	
C2946	ECA2AM100	E 10UF, 100V	1	
C2947	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2948	ECA1CM101	E 100UF, 16V	1	
C2949	ECA2CM100	E 10UF, 160V	1	
C2950	ECA1CM101	E 100UF, 16V	1	
C2951	ECA1CM221	E 220UF, 16V	1	
C2953	ECA1VM101	E 100UF, 35V	1	
C2954	ECA1HM100	E 10UF, 50V	1	
C2973	ECQM2103KZ	P 0.01UF, K,200V	1	
C2974	ECKF1H103ZF	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2975	ECQM2103KZ	P 0.01UF, K,200V	1	
C2976	ECA2AM100	E 10UF, 100V	1	
C2977	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2978	ECA1CM101	E 100UF, 16V	1	
C2979	ECA2CM100	E 10UF, 160V	1	
C2980	ECA1CM101	E 100UF, 16V	1	
C2981	ECA1CM221	E 220UF, 16V	1	
C2983	ECA1VM101	E 100UF, 35V	1	
C2984	ECA1HM100	E 10UF, 50V	1	
C3001	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3002	ECA1CM101	E 100UF, 16V	1	
C3006	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3009	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3012-17	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C3018	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3020	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3021	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3022,23	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C3024	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3025	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C3026-29	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C3030	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C3032,33	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3034	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3035	ECA1CM101	E 100UF, 16V	1	
C3036	ECA1CM470	E 47UF, 16V	1	
C3037,38	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3042-45	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C3046	ECA1CM101	E 100UF, 16V	1	
C3047-49	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3050	ECA1CM221	E 220UF, 16V	1	
C3051	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3053,54	ECA1HM010	E 1UF, 50V	2	
C3057,58	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3061-64	ECA1HM100	E 10UF, 50V	4	
C3067	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3068	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3069	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3077,78	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3079	ECEA1CN470U	E 47UF, 16V	1	
C3080	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3101-04	ECQB1H563JF	P 0.056UF, J, 50V	4	
C3107	ECKF1H561KB	C 560PF, K, 50V	1	
C3109	ECKF1H561KB	C 560PF, K, 50V	1	
C3112	ECJ2XC1H680J	C 68PF, J, 50V	1	ECUM1H680JCN
C3113,14	ECA1CM470	E 47UF, 16V	2	
C3115	ECEA1CN470U	E 47UF, 16V	1	
C3301-03	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C3323	ECA1HHG100	E 10UF, 50V	1	
C3352	ECA2AM220	E 22UF, 100V	1	
C3353	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3362	ECA2AM220	E 22UF, 100V	1	
C3363	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3372	ECA2AM220	E 22UF, 100V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3373	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3410	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3412	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3414,15	ECJ2XC1H561J	C 560PF, J, 50V	2	
C3417	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3419	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3420	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3422	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3424	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3426	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3430	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3450,51	ECEA1AKA221	E 220UF, 10V	2	
C3452,53	ECEA1CKA101	E 100UF, 16V	2	
C6715	ECKD3D681KBP	C 680PF, K, 2KV	1	
C6718	ECCD3D220KGE	C 22PF, K, 2KV	1	
C6731,32	ECKD3D681KBP	C 680PF, K, 2KV	2	
C7001	ECA1HHG2R2	E 2.2UF, 50V	1	
C7002,03	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7004,05	ECA1VHG101	E 100UF, 35V	2	
C7006	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7007	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7008	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7009	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7010	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7011	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7012	ECA1HHG2R2	E 2.2UF, 50V	1	
C7013,14	ECA1VHG101	E 100UF, 35V	2	
C7015,16	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7017	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7018	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7019	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7020	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7021	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7022	ECJ2XC1H220J	C 22UF, J, 50V	1	ECUM1H220JCN
C7090-95	ECJ2XB1H102K	C 1000PF, K, 50V	6	
C7101	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7102	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7103	ECA1CM222	E 2200UF, 16V	1	
C7104	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7105-07	ECJ2XC1H101J	C 100PF, J, 50V	3	
C7108	ECA1CM101	E 100UF, 16V	1	
C7109-11	ECEA1CKA470	E 47UF, 16V	3	
C7112,13	ECJ2XC1H561J	C 560PF, J, 50V	2	
C7114	ECJ2VC1H821J	C 820PF, J, 50V	1	
C7115-19	ECJ2VF1H103Z	C 0.01UF, Z, 50V	5	
C7120	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7121-25	ECJ2VF1H103Z	C 0.01UF, Z, 50V	5	
C7126-28	ECEA1CKA470	E 47UF, 16V	3	
C7129,30	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7131-34	ECJ2XC1H561J	C 560PF, J, 50V	4	
C7135	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7136	ECA1CM101	E 100UF, 16V	1	
C7137-40	ECJ2XC1H101J	C 100PF, J, 50V	4	
C7141	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7142	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7143-48	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C7149	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7150	ECA1VM470	E 47UF, 35V	1	
C7151-53	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	
C7154	ECA1CM101	E 100UF, 16V	1	
C7155-57	ECEA1CKA470	E 47UF, 16V	3	
C7158-61	ECJ2XC1H681J	C 680PF, J, 50V	4	
C7162	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7163,64	ECJ2XC1H681J	C 680PF, J, 50V	2	
C7165	ECA1VM470	E 47UF, 35V	1	
C7166	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7167	ECEA1CKA470	E 47UF, 16V	1	
C7168	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7169,70	ECEA1CKA470	E 47UF, 16V	2	
C7171,72	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7173	ECJ2VB1H273K	C 0.027UF, K, 50V	1	
C7174-76	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	
C7188-90	ECJ2XC1H560J	C 56PF, J, 50V	3	ECUM1H560JCN
C7191	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7193,94	ECA1CM101	E 100UF, 16V	2	
C7195	ECJ2XC1H101J	C 100PF, J, 50V	1	
C7196	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C7197	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7709-11	ECJ2XC1H271J	C 270PF, J, 50V	3	
C7712	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7713	ECA1EM471	E 470UF, 25V	1	
C7714	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7715	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7716	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7717	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7718	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7719-21	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7725	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7726	ECA1CM101	E 100UF, 16V	1	
C9301-03	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	
C9311	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C9320	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C9322-24	ECJ2VF1H103Z	C 0.01UF, Z, 50V	3	
C9351	ECA1CM101	E 100UF, 16V	1	
C9352,53	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C9601	ECA1VMH470	E 47UF, 35V	1	
C9602	ECJ2XC1H101J	C 100PF, J, 50V	1	
C9603	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C9604	ECA1HM220	E 22UF, 50V	1	
C9611	ECWH16473JV	P 0.047PF,J,1.6KV	1	
C9612	ECA1CM101	E 100UF, 16V	1	
C9613	ECEA1EN101U	E 100UF, 25V	1	
C9614	ECJ2XC1H471J	C 470PF, J, 50V	1	
C9615	ECQB1H223JF	P 0.022UF, J, 50V	1	
D001	MA4020	ZENER DIODE	1	MAZ4020
D1	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D002	MA4020	ZENER DIODE	1	MAZ4020

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D2	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D003	MA3150H	ZENER DIODE	1	MAZ31500H
D3	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D4	K1KA03A00172	3P CONNECTOR	1	
D004	MA3150H	ZENER DIODE	1	MAZ31500H
D5	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
D6	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D8	TJS3A9670	6P CONNECTOR	1	K1KA06A00179
D010	MA152K	DIODE	1	MA3X152K
D12	K1KA03A00172	3P CONNECTOR	1	
D13-15	TJS3A9650	4P CONNECTOR	3	K1KA04A00194
D40	TJS5A9420	8P CONNECTOR	1	K1KB08A00054
D051,52	MA4020	ZENER DIODE	2	MAZ4020
D053	MA152K	DIODE	1	MA3X152K
D60	TJS5A9420	8P CONNECTOR	1	K1KB08A00054
D70	TJS5A9420	8P CONNECTOR	1	K1KB08A00054
D353,54	MA165	DIODE	2	MA2C165
D357	MA165	DIODE	1	MA2C165
D360-63	MA188	DIODE	4	MA2C188
D366	AM01Z	DIODE	1	B0EAKC000002
D367-70	MA188	DIODE	4	MA2C188
D373,74	MA165	DIODE	2	MA2C165
D377	MA165	DIODE	1	MA2C165
D387-90	MA188	DIODE	4	MA2C188
D393,94	MA165	DIODE	2	MA2C165
D397	MA165	DIODE	1	MA2C165
D452	MA152K	DIODE	1	MA3X152K
D453	EU02A	DIODE	1	B0HAMR000047
D454,55	MA152K	DIODE	2	MA3X152K
D456	ERA22-02	DIODE	1	B0HAGM000001
D457-60	AM01Z	DIODE	4	B0EAKC000002
D461	MA3030H	ZENER DIODE	1	
D462	MA721	DIODE	1	MA3X721
D465	MA3039H	ZENER DIODE	1	MAZ30390H
D500,01	D1NL40V70	DIODE	2	B0HALP000002
D502	MA4150M	ZENER DIODE	1	MAZ41500M
D503	FMV-3GU	DIODE	1	
D504	MA4270M	ZENER DIODE	1	MAZ42700M
D505	MA4030M	ZENER DIODE	1	MAZ40300M
D510,11	D1NL40V70	DIODE	2	B0HALP000002
D512-14	MA182	DIODE	3	MA2B182
D519	AU02Z	DIODE	1	B0HAKM000004
D530	MA165	DIODE	1	MA2C165
D701	D1NL40V70	DIODE	1	B0HALP000002
D702	MA4120M	ZENER DIODE	1	MAZ41200M
D801	D4SB80Z	DIODE	1	B0EBNT000004
D805	MA2240B	ZENER DIODE	1	MAZ22400B
D807	B3PAA0000153	DIODE	1	⚠
D809	MA2082-A	ZENER DIODE	1	MAZ20820A
D811	MA2082-A	ZENER DIODE	1	MAZ20820A
D813	ERDS2TC0	C 0 OHM, 1/4W	1	
D815	MA4220M	ZENER DIODE	1	MAZ42200M
D816	MA165	DIODE	1	MA2C165
D819-21	ERA22-04	DIODE	3	B0HAGP000001

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D822,23	ERC13-08	DIODE	2	B0EAKT000022 TX-47P500X
D828	FML-12S	DIODE	1	
D829	ERC91-02	DIODE	1	B0HAPM000003
D831	FMGG2CS	DIODE	1	B0HAPV000011
D851	FML22S	DIODE	1	B0HFRJ000011
D860	FMGG26S	DIODE	1	B0HANR000014
D869,70	MA152K	DIODE	2	MA3X152K
D871	ERA22-02	DIODE	1	B0HAGM000001
D875,76	ERZV14D511	VARISTOR	2	
D884	TLP721FD4GR	PHOTO COUPLER	1	B3PAA0000222 ⚠
D885	MA4056H	ZENER DIODE	1	MAZ40560H
D886	MA165	DIODE	1	MA2C165
D890	EU02	DIODE	1	
D893	ERC13-08	DIODE	1	B0EAKT000022
D894	MA152K	DIODE	1	MA3X152K
D1011	LNG201RFC	DIODE	1	
D1012,13	MA4056M	ZENER DIODE	2	MAZ40560M
D1152,53	MA152K	DIODE	2	MA3X152K
D1154	MA3039H	ZENER DIODE	1	MAZ30390H
D1301	MA152K	DIODE	1	MA3X152K
D1304	MA152WK	DIODE	1	MA3X152E
D1305	MA704A	DIODE	1	MA3X704A
D1306	MA3062M	ZENER DIODE	1	MAZ30620M
D1307	MA3091M	ZENER DIODE	1	MAZ30910M
D1308,09	MA152K	DIODE	2	MA3X152K
D1310-12	MA3062M	ZENER DIODE	3	MAZ30620M
D1313	MA3043M	ZENER DIODE	1	MAZ30430M
D1315	MA3043M	ZENER DIODE	1	MAZ30430M
D1354	MA152WK	DIODE	1	MA3X152E
D2040-42	MA152K	DIODE	3	MA3X152K
D2302	MTZJ5.6B	ZENER DIODE	1	
D2304	MA152K	DIODE	1	MA3X152K
D2305	MA3360M	ZENER DIODE	1	MAZ33600M
D2308	MA4360M	ZENER DIODE	1	MAZ43600M
D2310	MA3360M	ZENER DIODE	1	MAZ33600M
D2312	MA3130H	ZENER DIODE	1	
D2313,14	MA152K	DIODE	2	MA3X152K
D2316	MA152K	DIODE	1	MA3X152K
D2322	RU3YX-M	DIODE	1	
D2361	MTZJ5.6B	ZENER DIODE	1	
D2711	RK34	DIODE	1	
D2712	AK04	DIODE	1	B0JAMC000003
D2713,14	RK34	DIODE	2	
D2902	TVSSR2KN	DIODE	1	B0ZAZ0000041
D2903	MA188	DIODE	1	MA2C188
D2942	TVSSR2KN	DIODE	1	B0ZAZ0000041
D2943	MA188	DIODE	1	MA2C188
D2972	TVSSR2KN	DIODE	1	B0ZAZ0000041
D2973	MA188	DIODE	1	MA2C188
D3003,04	MA3091L	ZENER DIODE	2	
D3007	MA157A	DIODE	1	MA3X157A
D3008-12	MA3091	ZENER DIODE	5	MAZ3091
D3050	MA3120M	ZENER DIODE	1	MAZ31200M
D3351,52	MA165	DIODE	2	MA2C165

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D3361,62	MA165	DIODE	2	MA2C165
D3371,72	MA165	DIODE	2	MA2C165
D3410	MA152K	DIODE	1	MA3X152K
D3411	MA3020	ZENER DIODE	1	
D6705	EG01C	DIODE	1	B0HAGV000001
D6710	MA2082-A	ZENER DIODE	1	MAZ20820A
D6712	ERC13-08	DIODE	1	B0EAKT000022
D6717,18	ERC13-08	DIODE	2	B0EAKT000022
D7101	MA157A	DIODE	1	MA3X157A
D7102	MA152WK	DIODE	1	MA3X152E
D7103	MA152K	DIODE	1	MA3X152K
D7707	MA152WK	DIODE	1	MA3X152E
D7708	MA152K	DIODE	1	MA3X152K
D7709	MA152WK	DIODE	1	MA3X152E
D9350,51	MA3051M	ZENER DIODE	2	MAZ30510M
D9352	MA152K	DIODE	1	MA3X152K
D9601	MA3075H	ZENER DIODE	1	MAZ30750H
D9602	RP1H	DIODE	1	B0HACW000001
D9603,04	MA3030H	ZENER DIODE	2	
D9605	MA29B	DIODE	1	
D9606	MA152K	DIODE	1	MA3X152K
D9607	MA4062L	ZENER DIODE	1	MAZ40620L
F801	XBA2C50TR0	FUSE 250V 5A	1	K5D502BK0003 ⚠
F801-1,-2	EYF-52BC	FUSE HOLDER	2	
H1,H2	TJSF17425	25P CONNECTOR	2	K1KA25B00004
IC051,52	AN7805F	LINEAR IC	2	
IC451	LA7845N	LINEAR IC	1	C1AA00000529
IC459	TC74HC221AF	MOS IC (CMOS S/LOGIC)	1	C0JBAM000065
IC501	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC801	STRF6656LF53	LINEAR IC	1	C5HABZZ00014
IC802	STR83145LF55	LINEAR IC	1	TX-47P500X
IC808	SE139N	LINEAR IC	1	
IC810	AN7812	LINEAR IC	1	
IC881	MIP2810001TV	IC (LOGIC)	1	
IC1101	SDA6000	INTEGRATED CIRCUIT	1	
IC1102	TVRJ652-1	ROM IC	1	C3FBKD000104
IC1104	TVRJ653-1	ROM IC (EEPROM 16KBIT)	1	C3EAGC000012
IC1105	S-80843ALY-Z	LINEAR IC	1	C0EAH0000067
IC1106	TVSA0500	IC	1	C3ABMG000074
IC1107	TC7MBD3245KL	IC	1	C0JBAZ001839
IC1108	AN78L05	LINEAR IC	1	
IC1109	PST9119NR	INTEGRATED CIRCUIT	1	
IC1110	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1111	TC7SH32FU	IC	1	
IC1251	SI-3033C	HYBRID IC	1	C0DAEGG00007
IC1252	PQ30RV21A	LINEAR IC	1	C0DAEZH00008
IC1253	M62392FP	IC	1	C0FBBD000083
IC1254	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1301	C1AB00001494	IC	1	
IC1304	C1AB00001494	IC	1	
IC1305	SDA9415	INTEGRATED CIRCUIT	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC1306-08	C0CBABB00029	IC	3	
IC1310	TC7WH241FU	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001263
IC1311	C0CBABB00029	IC	1	
IC1312	NJM2904V	INTEGRATED CIRCUIT	1	C0ABBA000084
IC1314	NJM2904M	LINEAR IC	1	C0ABBA000021
IC1315	AN5394FB	IC	1	
IC1316	TVSA0500	IC	1	C3ABMG000074
IC1317	C0CBABB00029	IC	1	
IC1318	TC74HC04AF	MOS IC (CMOS S/LOGIC)	1	C0JBAB000153
IC1701	AN5395FBP	LINEAR IC	1	
IC1703,04	M52055FP	LINEAR IC	2	C1AB00000734
IC1705,06	CXA1315M	LINEAR IC	2	C1AB00000440
IC2001	TVSA0431	IC	1	
IC2301	TA8200AH	LINEAR IC	1	C1AA00000348
IC2302	AN7108	LINEAR IC	1	
IC2304	AN7108	LINEAR IC	1	
IC2705,06	PQ1CG21H2RZ	INTEGRATED CIRCUIT	2	C0DACMG00001
IC2707	AN7808	LINEAR IC	1	
IC2708	SI-8090K	HYBRID IC	1	C0DAAHH00020
IC2709	PQ1CG21H2RZ	INTEGRATED CIRCUIT	1	C0DACMG00001
IC2710	SI-3033C	HYBRID IC	1	C0DAEGG00007
IC3001	CXA2069Q	LINEAR IC	1	C1AB00000459
IC3002	TDA8601T/C1	IC	1	
IC3003	CXA1211M	LINEAR IC	1	C1AB00000013
IC3004,05	C0ZBZ0000451	IC	2	
IC7001,02	STK392-110	LINEAR IC	2	C5AA00000108
IC7101	AN78L05M	LINEAR IC	1	
IC7102	TVRJ591	ROM IC	1	24LC64T-I/SN
IC7103	TC7WH04FU	MOS IC (CMOS S/LOGIC)	1	
IC7104	C0FBBH000040	IC	1	
IC7105,06	TL084CNS	IC	2	C0AAFB000011
IC7107	C1AB00001220	IC	1	
IC7108	AN78L12M	LINEAR IC	1	
IC7109	AN79L12M	IC	1	
IC7110	BA7603F	IC	1	
IC7121	CXA1875AM	LINEAR IC	1	C0FBBD000017
IC7702	CXA1315M	LINEAR IC	1	C1AB00000440
IC7703	AN6912S	IC	1	
IC9351	AN78N09	LINEAR IC	1	
IC9601	AN6562S	LINEAR IC	1	
J10	ERD25TC0	C 0 OHM, 1/4W	1	
JA1,A2	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JA4-A9	ERJ6GEY0R00	M 0 OHM,J,1/10W	6	
JA12	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JA14-21	ERJ6GEY0R00	M 0 OHM,J,1/10W	8	
JA23-25	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
JK351	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK371	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK391	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK3102	TJB4G636	TERMINAL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JK3401	TJB4G639	TERMINAL	1	
JS12	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS14-18	ERJ6GEY0R00	M 0 OHM,J,1/10W	5	
JS24	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS27	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS32,33	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JS99	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS7102,03	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JS7106	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA5-A7	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
JSA22	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA24	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA30	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA33-36	ERJ6GEY0R00	M 0 OHM,J,1/10W	4	
JSA42	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA50	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA65,66	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JSA68	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA70	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA73	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA78	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA84	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA92-97	ERJ6GEY0R00	M 0 OHM,J,1/10W	6	
JSA101	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG4	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG6	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG12	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSD14	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG16-18	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
JSDG18	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG27	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG57-61	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
JSDG71-75	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
JSDG79-82	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
JSDG90	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG232-37	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
JSDG242-47	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
JSDG250	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSH1-H6	ERJ6GEY0R00	M 0 OHM,J,1/10W	6	
JSU3	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L002,03	ELESE2R2KA	PEAKING COIL	2	
L008,09	EXCELDR35C	BEAD CHOKE	2	
L053	EXCELDR35C	BEAD CHOKE	1	
L055,56	ELESE2R2KA	PEAKING COIL	2	
L351	ELEBD101KA	PEAKING COIL	1	
L352	ELESE100JA	PEAKING COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L353	ELESE1R0JA	PEAKING COIL	1	ELESE4R7JA
L354	ELESE6R8JA	PEAKING COIL	1	
L371	ELEBD101KA	PEAKING COIL	1	
L372	ELESE100JA	PEAKING COIL	1	
L373	ELESE4R7KA	PEAKING COIL	1	
L374	ELESE6R8JA	PEAKING COIL	1	
L391	ELEBD101KA	PEAKING COIL	1	
L392	ELESE150JA	PEAKING COIL	1	
L393	ELESE6R8JA	PEAKING COIL	1	
L394	ELESE100JA	PEAKING COIL	1	
L414	ELESE470KA	PEAKING COIL	1	
L452,53	EXCELDR35C	BEAD CHOKE	2	
L503	EXCELSA35	BEAD CHOKE	1	
L505	EXCELSA24	BEAD CHOKE	1	
L506-08	EXCELDR25C	BEAD CHOKE	3	
L510	TSKA064	BEAD CORE	1	J0JKB0000011
L511	EXCELSA24	BEAD CHOKE	1	
L512	TSKA064	BEAD CORE	1	J0JKB0000011
L531	EXCELDR35C	BEAD CHOKE	1	
L555	ELH5L718	HORIZONTAL COIL	1	
L701	TALFP15B222K	INDUCTION COIL	1	
L702	ELC18B121F	CHOKE COIL	1	
L703	EXCELSA35	BEAD CHOKE	1	
L704	EXCELDR35C	BEAD CHOKE	1	
L815,16	EXCELSA39	BEAD CHOKE	2	
L818	EXCELSA35	BEAD CHOKE	1	
L820	EXCELSA24	BEAD CHOKE	1	
L822	EXCELDR35C	BEAD CHOKE	1	
L827,28	TALL08N220KA	INDUCTION COIL	2	G0C220K00013
L830	EXCELSA35	BEAD CHOKE	1	
L851	EXCELSA35	BEAD CHOKE	1	
L857	EXCELSA35	BEAD CHOKE	1	
L861	TLUADTB470K	INDUCTION COIL	1	G0A470GA0017
L862	TALL08N101KA	INDUCTION COIL	1	G0A101EA0008
L870	ELF24V030A	LINE FILTER	1	TX-47P500X ⚠
L872	ELF24V032B	LINE FILTER	1	TX-47P500X ⚠
L872	ELF24V019A	LINE FILTER	1	TX-47P50HM/HQ/HZ ⚠
L873	ELF24V018A	LINE FILTER	1	TX-47P50HM/HQ/HZ ⚠
L873	ELF24V030A	LINE FILTER	1	TX-47P500X ⚠
L874	EXCELSA35	BEAD CHOKE	1	
L880	EXCELSA35	BEAD CHOKE	1	
L883	TALL08N181KA	CHIP INDUCTOR COIL	1	G0A181EA0008
L1052	EXCELSA35	BEAD CHOKE	1	
L1101	ERDS2TC0	C 0 OHM, 1/4W	1	
L1103,04	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1106	ELESE4R7JA	PEAKING COIL	1	
L1107-10	TALC325T4R7M	CHIP INDUCTOR COIL	4	
L1115	TALC325T3R3M	CHIP INDUCTOR COIL	1	
L1116	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1300	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1303	TALC168T2R2K	CHIP INDUCTOR COIL	1	
L1304	TALC325T4R7M	CHIP INDUCTOR COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L1305	TALC168T3R3K	CHIP INDUCTOR COIL	1	
L1306	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1307	ERDS2TC0	C 0 OHM, 1/4W	1	
L1308,09	G1C100KA0008	INDUCTOR COIL	2	
L1310-15	TALC325T4R7M	CHIP INDUCTOR COIL	6	
L1317	TALC168T6R8K	CHIP INDUCTOR COIL	1	
L1318,19	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1323,24	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1330	ELJPA330KB	CHIP INDUCTOR	1	
L1702,03	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1705,06	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1709-11	TALC325T4R7M	CHIP INDUCTOR COIL	3	
L1722	TALC168T8R2K	CHIP INDUCTOR COIL	1	
L1723	TALC168T2R7K	CHIP INDUCTOR COIL	1	
L2001,02	EXCELDR35C	BEAD CHOKE	2	
L2004	ELESE6R8KA	PEAKING COIL	1	
L2005	EXCELDR35C	BEAD CHOKE	1	
L2007,08	EXCELDR35C	BEAD CHOKE	2	
L2009,10	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L2278	EXCELSA35	BEAD CHOKE	1	
L2302	TLS159054E	NETWORK COIL	1	G0A5R0H00003
L2303-05	EXCELSA35	BEAD CHOKE	3	
L2306	TLS159054E	NETWORK COIL	1	G0A5R0H00003
L2307-10	EXCELSA35	BEAD CHOKE	4	
L2323	EXCELDR35C	BEAD CHOKE	1	
L2523-26	ELESE6R8KA	PEAKING COIL	4	
L2527	EXCELSA35	BEAD CHOKE	1	
L2703	EXCELDR35C	BEAD CHOKE	1	
L2704	TALL08N330KA	INDUCTION COIL	1	G0A330GA0011
L2705	EXCELDR35C	BEAD CHOKE	1	
L2706	TAL10RP151LB	INDUCTION COIL	1	G0ZZ00001908
L2707	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L2708	EXCELDR35C	BEAD CHOKE	1	
L2709	TLPF095	CHOKE COIL	1	G0A221GA0001
L2710	EXCELDR35C	BEAD CHOKE	1	
L2712	TAL10RP151LB	INDUCTION COIL	1	G0ZZ00001908
L2713-15	EXCELDR35C	BEAD CHOKE	3	
L2716,17	TALL08N330KA	INDUCTION COIL	2	G0A330GA0011
L2718,19	TLPF095	CHOKE COIL	2	G0A221GA0001
L2722-25	EXCELDR35C	BEAD CHOKE	4	
L2727	EXCELDR35C	BEAD CHOKE	1	
L2729	EXCELDR35C	BEAD CHOKE	1	
L2730	TALL08N680KA	INDUCTION COIL	1	G0A680GA0011
L2732	EXCELDR35C	BEAD CHOKE	1	
L2734,35	EXCELDR35C	BEAD CHOKE	2	
L2736-43	EXCML45A910H	BEAD CHOKE	8	
L2744	EXCCL4532U1	BEAD CHOKE	1	
L2901-03	EXCELSA35	BEAD CHOKE	3	
L2904	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L2941-43	EXCELSA35	BEAD CHOKE	3	
L2944	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L2971-73	EXCELSA35	BEAD CHOKE	3	
L2974	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L3002,03	ERDS2TC0	C 0 OHM, 1/4W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L3004	ELESE4R7KA	PEAKING COIL	1	
L3050	ELESE221KA	PEAKING COIL	1	
L3403,04	ELESE1R5KA	PEAKING COIL	2	
L3415	EXCELDR35C	BEAD CHOKE	1	
L3420	ELESE4R7JA	PEAKING COIL	1	
L3424	EXCELDR25C	BEAD CHOKE	1	
L6719,20	EXCELDR25C	BEAD CHOKE	2	
L7001-06	EXCELSA39	BEAD CHOKE	6	
L7007,08	ELJPA100KB	CHIP INDUCTOR	2	
L7704	ELESE100JA	PEAKING COIL	1	
LB1	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
LB2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
LC1101,02	TLK212T256AL	EMI FILTER	2	J0HAAB000012
LC1104-06	TLK212T256AL	EMI FILTER	3	J0HAAB000012
LC1107-09	ELKE103FA	NOISE FILTER	3	
LC1110-13	TLK212T256AL	EMI FILTER	4	J0HAAB000012
LC1114	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1115-20	TLK20LFA103M	EMI FILTER	6	
LC1121-24	TLK20LFA224M	EMI FILTER	4	J0HABB000004
LC1125-28	TLK20LFA103M	EMI FILTER	4	
LC1130-34	TLK20LFA103M	EMI FILTER	5	
LC1135	TLK212T256AL	EMI FILTER	1	J0HAAB000012
LC1136-39	TLK20LFA103M	EMI FILTER	4	
LC1140	TLK212T256AL	EMI FILTER	1	J0HAAB000012
LC1141-43	TLK20LFA103M	EMI FILTER	3	
LC1144-46	TLK212T256AL	EMI FILTER	3	J0HAAB000012
LC1147	ELKE103FA	NOISE FILTER	1	
LC1300-05	TLK20LFA224M	EMI FILTER	6	J0HABB000004
LC1312	TLK20LFA223M	EMI FILTER	1	J0HABB000003
LC1314-19	TLK20LFA223M	EMI FILTER	6	J0HABB000003
LC1320	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1321	TLK20LFA223M	EMI FILTER	1	J0HABB000003
LC1323	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1324,25	TLK20LFA223M	EMI FILTER	2	J0HABB000003
LC1326-28	TLK20LFA224M	EMI FILTER	3	J0HABB000004
LC1329-33	ELKE103FA	NOISE FILTER	5	
LG1	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
LG2	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
LG3	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
LG4	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
LR1	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
LR2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
M1	TJS169610	4P CONNECTOR	1	K1KA04B00005
M11	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
M12	TJS3A9920	12P CONNECTOR	1	K1KA12A00156
M13	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
P2	TJS169700	5P CONNECTOR	1	K1KA05A00090
P4	TJS3A9640	3P CONNECTOR	1	K1KA03A00171

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P40	TJS3A9140	CONNECTOR	1	K1KA08B00121
P50	TJS3A8010	3P CONNECTOR	1	K1KB03B00009
P60	TJS3A9140	CONNECTOR	1	K1KA08B00121
P70	TJS3A9140	CONNECTOR	1	K1KA08B00121
Q002	2SB709A	TRANSISTOR	1	2SB0709A
Q052	2SB709A	TRANSISTOR	1	2SB0709A
Q353	2SC3942	TRANSISTOR	1	
Q354	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q355,56	2SA1480	TRANSISTOR	2	
Q373	2SC3942	TRANSISTOR	1	
Q374	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q375,76	2SA1480	TRANSISTOR	2	
Q393	2SC3942	TRANSISTOR	1	
Q394	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q395,96	2SA1480	TRANSISTOR	2	
Q451	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q460-63	2SD601A-R	TRANSISTOR	4	2SD0601AR
Q464	2SB709A	TRANSISTOR	1	2SB0709A
Q465	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q501	2SK2962	FET	1	
Q551	2SC5612	TRANSISTOR	1	
Q552-54	2SC1473	TRANSISTOR	3	2SC14730E
Q555	2SK1608	FET	1	
Q556	2SK1365	FET	1	
Q557	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q701	2SK2538000LB	FET	1	
Q805	2SK2123000LB	FET	1	
Q849	2SA19610Q0HW	TRANSISTOR	1	
Q852	2SC3311A	TRANSISTOR	1	2SC3311AW
Q854	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1003	2SC3311A	TRANSISTOR	1	2SC3311AW
Q1107	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1115	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1121-23	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1125	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1303-05	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1306	2SB709A	TRANSISTOR	1	2SB0709A
Q1307	XN5601	TRANSISTOR	1	XN05601
Q1308,09	2SB709A	TRANSISTOR	2	2SB0709A
Q1311-16	2SB709A	TRANSISTOR	6	2SB0709A
Q1317	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1318,19	2SB709A	TRANSISTOR	2	2SB0709A
Q1321,22	2SB709A	TRANSISTOR	2	2SB0709A
Q1326	2SB709A	TRANSISTOR	1	2SB0709A
Q1327	2SK198R	FET	1	2SK01980R
Q1328	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1329	2SK198R	FET	1	2SK01980R
Q1330	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1332	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1333	2SB709A	TRANSISTOR	1	2SB0709A
Q1334	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1335,36	2SB709A	TRANSISTOR	2	2SB0709A
Q1710	2SD601A-R	TRANSISTOR	1	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q1711	2SB709A	TRANSISTOR	1	2SB0709A
Q1712	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1713	2SB709A	TRANSISTOR	1	2SB0709A
Q1714	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1715	2SB709A	TRANSISTOR	1	2SB0709A
Q1716	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1720	2SB709A	TRANSISTOR	1	2SB0709A
Q1721	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1725	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1728-30	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1735-37	2SB709A	TRANSISTOR	3	2SB0709A
Q1738	2SC3757	TRANSISTOR	1	2SC37570R
Q1739	2SB709A	TRANSISTOR	1	2SB0709A
Q1752	2SB709A	TRANSISTOR	1	2SB0709A
Q2002-05	2SB709A	TRANSISTOR	4	2SB0709A
Q2040,41	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q2043	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2215,16	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q2301-06	2SD601A-R	TRANSISTOR	6	2SD0601AR
Q2307,08	2SB709A	TRANSISTOR	2	2SB0709A
Q2309-12	2SD601A-R	TRANSISTOR	4	2SD0601AR
Q2361	2SC3311A	TRANSISTOR	1	2SC3311AW
Q2534	2SC3757	TRANSISTOR	1	2SC37570R
Q2901-03	2SC3311A	TRANSISTOR	3	2SC3311AW
Q2904,05	2SC1318A	TRANSISTOR	2	2SC1318AW
Q2911	2SC1318A	TRANSISTOR	1	2SC1318AW
Q2912	2SA720-R	TRANSISTOR	1	
Q2913,14	2SC1318A	TRANSISTOR	2	2SC1318AW
Q2915	2SA720-R	TRANSISTOR	1	
Q2916	2SA720A	TRANSISTOR	1	
Q2917	2SA1535A	TRANSISTOR	1	
Q2918	2SC3944A	TRANSISTOR	1	
Q2919	2SC1318A	TRANSISTOR	1	2SC1318AW
Q2941	2SC1318A	TRANSISTOR	1	2SC1318AW
Q2942	2SA720-R	TRANSISTOR	1	
Q2943,44	2SC1318A	TRANSISTOR	2	2SC1318AW
Q2945	2SA720-R	TRANSISTOR	1	
Q2946	2SA720A	TRANSISTOR	1	
Q2947	2SA1535A	TRANSISTOR	1	
Q2948	2SC3944A	TRANSISTOR	1	
Q2949	2SC1318A	TRANSISTOR	1	2SC1318AW
Q2971	2SC1318A	TRANSISTOR	1	2SC1318AW
Q2972	2SA720-R	TRANSISTOR	1	
Q2973,74	2SC1318A	TRANSISTOR	2	2SC1318AW
Q2975	2SA720-R	TRANSISTOR	1	
Q2976	2SA720A	TRANSISTOR	1	
Q2977	2SA1535A	TRANSISTOR	1	
Q2978	2SC3944A	TRANSISTOR	1	
Q2979	2SC1318A	TRANSISTOR	1	2SC1318AW
Q3006	2SB709A	TRANSISTOR	1	2SB0709A
Q3007	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3011	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3071,72	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q3130	2SD601A-R	TRANSISTOR	1	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q3131	2SB709A	TRANSISTOR	1	2SB0709A
Q3132	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3351	2SB1030A	TRANSISTOR	1	
Q3361	2SB1030A	TRANSISTOR	1	
Q3371	2SB1030A	TRANSISTOR	1	
Q3401	2SB709A	TRANSISTOR	1	2SB0709A
Q3402	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q7001,02	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q7101	XN1501	TRANSISTOR	1	XN01501
Q7102	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q7103	2SB709A	TRANSISTOR	1	2SB0709A
Q7701-03	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q7704-06	2SB709A	TRANSISTOR	3	2SB0709A
Q7707-09	2SC3526H	TRANSISTOR	3	
Q7710,11	2SB709A	TRANSISTOR	2	2SB0709A
Q7712	2SC3757	TRANSISTOR	1	2SC37570R
Q7713,14	2SB709A	TRANSISTOR	2	2SB0709A
Q7715	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q7716	2SB709A	TRANSISTOR	1	2SB0709A
Q7717-19	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q7720-25	2SB709A	TRANSISTOR	6	2SB0709A
Q9301	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q9302	2SB709A	TRANSISTOR	1	2SB0709A
Q9601	2SB709A	TRANSISTOR	1	2SB0709A
Q9602	2SC4635	TRANSISTOR	1	
Q9603	2SD601A-R	TRANSISTOR	1	2SD0601AR
R001	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R002,03	ERJ6GEYJ683	M 68KOHM,J,1/10W	2	
R005	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R008	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R052,53	ERJ6GEYJ683	M 68KOHM,J,1/10W	2	
R055	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R056	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R057	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R058	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R059	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R064	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R355	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R357	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R358	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R359	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R362	ERC12GK331	S 330 OHM, 1/2W	1	
R365	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R366,67	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R368,69	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R372	ERC12GK331	S 330 OHM, 1/2W	1	
R373	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R375	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R377	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R378	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R379	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R382	ERC12GK331	S 330 OHM, 1/2W	1	
R383	ERG7ZJ272	M 2.7KOHM, J, 7W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R385	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R386,87	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R388,89	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R390	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R391,92	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R393,94	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R395	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R398	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R399	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R451,52	ERX12SJ3R3	M 3.3 OHM, J,1/2W	2	
R453	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R454	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R455	ERG3FJS331D	M 330 OHM, J, 3W	1	
R456	ERJ6ENF9531	M9.53KOHM, 1/10W	1	
R457	ERJ6ENF7151	M7.15KOHM, 1/10W	1	
R458	ERJ6ENF3481	M3.48KOHM, 1/10W	1	
R460	ERDS1FJ1R0	C 1 OHM, J,1/2W	1	
R461	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R462	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R463	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R464	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R465	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R466	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R467	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R468	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R469	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R470,71	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R472-74	ERDS2TJ331	C 330 OHM, J,1/4W	3	
R475	ERJ6ENF3011	M3.01KOHM, 1/10W	1	
R476	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R477	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R478,79	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R496	ERJ6ENF7152	M71.5KOHM, 1/10W	1	
R497	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R498	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R499	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R501	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R502	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R503	ERG3FJS680D	M 68 OHM, J, 3W	1	
R504	ERG1SJ102P	M 1KOHM, J, 1W	1	
R506	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R507	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R510	ERDS1FJ1R5	C 1.5 OHM, J,1/2W	1	
R511	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R512	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R513	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R514	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R515,16	ERDS2TJ222	C 2.2KOHM, J,1/4W	2	
R517	ER0S2CKF4991	M4.99KOHM, F,1/4W	1	
R518	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	
R519	ER050CKF4532	M4.53KOHM, F,1/2W	1	ERO50CKF4532
R520	ER0S2CKF3832	M38.3KOHM, F,1/4W	1	EROS2CKF3832
R521	ER0S2CKF6041	M6.04KOHM, F,1/4W	1	EROS2CKF6041
R522	ER0S2CKF1212	M12.1KOHM, F,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R524	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R525	ERQ12HKR33	F0.33 OHM, K,1/2W	1	
R526	ERQ12HJ330	F 33 OHM, J,1/2W	1	
R527	ERJ6ENF2552	M25.5KOHM, 1/10W	1	
R528	ERJ6ENF8061	M8.06KOHM, 1/10W	1	
R529	ER0S2CKF4991	M4.99KOHM, F,1/4W	1	
R530	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R531	ERDS2TJ275	C 2.7MOHM, J,1/4W	1	
R532	ERDS2TJ224	C 220KOHM, J,1/4W	1	
R533	EVMAASA00B34	CONTROL 30KOHMB	1	
R534	ERDS2TJ333	C 33KOHM, J,1/4W	1	
R540	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R541,42	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R543,44	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R545	ERG1SJ100P	M 10 OHM, J, 1W	1	
R647	ERJ6GEYJ680	M 68 OHM,J,1/10W	1	
R652,53	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R654	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R655-57	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	3	
R658	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R701	ERDS1FJ680	C 68 OHM, J,1/2W	1	
R703	ERF5AK4R7	W 4.7 OHM, K, 5W	1	
R779	ERJ6ENF1372	M13.7KOHM, 1/10W	1	
R780	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R781	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R782	ERDS2TJ391	C 390 OHM, J,1/4W	1	
R783	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R801	ERF10ZK4R7	W 4.7 OHM, Z, 10W	1	
R803,04	ERG2FJS393D	M 39K OHM, J, 2W	2	
R806	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R810	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R815	ERD75TAJ825	C 8.2MOHM, J,3/4W	1	⚠
R819	ERDS2TJ681	C 680 OHM, J,1/4W	1	
R820	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R821	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R822	ERDS2TJ820	C 82 OHM, J,1/4W	1	
R832	ERDS1FJ391	C 390 OHM, J,1/2W	1	
R836,37	ERDS2TJ152	C 1.5KOHM, J,1/4W	2	
R845	ERX1SJR27	M 0.27 OHM, J, 1W	1	
R854	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R861	ERG3FJS470D	M 47 OHM, J, 3W	1	TX-47P500X
R867	ERG3FJS153D	M 15KOHM, J, 3W	1	
R870	ERC12ZGK335	S 3.3MOHM, K,1/2W	1	⚠
R871	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R872	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R873	ERDS1FJ102	C 1KOHM, J,1/2W	1	
R877	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R880	ERDS2TJ183	C 18KOHM, J,1/4W	1	
R881	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R882	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R883	ERG1SJ104P	M 100KOHM, J, 1W	1	
R884	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R885,86	ERX1SJ1R0	M 1.0 OHM, J, 1W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R890	ERDS1FJ102	C 1KOHM, J,1/2W	1	
R891	ERDS1FJ122	C 1.2KOHM, J,1/2W	1	
R1043	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R1044	ERDS2TJ123	C 12KOHM, J,1/4W	1	
R1045	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R1046	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R1050	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R1051	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1081	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R1082	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R1083,84	ERDS2TJ101	C 100 OHM, J,1/4W	2	
R1085	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R1101,02	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R1103	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1104	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1105	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1106	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1107	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R1108,09	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	2	
R1110	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R1111,12	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1113	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1114	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1115	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1116	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R1117	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1118-21	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R1122-25	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R1126	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1127	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1128	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1131	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1132	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1134	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1143	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1145	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R1146	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1147	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1153	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R1154	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1155	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1156	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1157,58	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1159	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1160	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1161	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1162	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R1164	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R1166	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R1168	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1169	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1170	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1172	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1177	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1178	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1179	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R1180	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1181	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1188-93	TAJAAH0101JV	M 100 OHM,J,1/16W	6	D0GB101JA006
R1194	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1195	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1196	EXB38V680J	RESISTOR ARRAY	1	
R1202	EXB38V680J	RESISTOR ARRAY	1	
R1205	EXB38V680J	RESISTOR ARRAY	1	
R1209	EXB38V680J	RESISTOR ARRAY	1	
R1214	EXB38V680J	RESISTOR ARRAY	1	
R1217	EXB38V680J	RESISTOR ARRAY	1	
R1221	EXB38V680J	RESISTOR ARRAY	1	
R1225	EXB38V680J	RESISTOR ARRAY	1	
R1232,33	EXB38V680J	RESISTOR ARRAY	2	
R1236	EXB38V680J	RESISTOR ARRAY	1	
R1239,40	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R1241	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1242	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1243	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R1249,50	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1251	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1253	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1255	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1256	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1257	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1258	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1264	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1293,94	ERJ6ENF3901	M 3.9KOHM, 1/10W	2	
R1301,02	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1303	ERJ6ENF56R0	M 56 OHM, 1/10W	1	
R1304	ERJ3EKF7151	M7.15KOHM, 1/16W	1	
R1305	ERJ6ENF56R0	M 56 OHM, 1/10W	1	
R1306	ERJ6ENF1200	M 120 OHM, 1/10W	1	
R1307	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	
R1308	ERJ3EKF3901	M 3.9KOHM, 1/16W	1	
R1309,10	ERJ6ENF2001	M 2KOHM, 1/10W	2	
R1311	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1312	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1313,14	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R1315	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1316	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1317	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1318	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1319	ERJ6ENF5600	M 560 OHM, 1/10W	1	
R1320	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1321	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1322	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1323	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1324	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1325	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R1326	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1327	ERJ6ENF1500	M 150 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1329	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1332	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1333	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1334	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1335	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1336	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1338	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1339	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R1340	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1341	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1343	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1344	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R1345	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1348	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1349	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R1350	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1351	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R1352	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1353	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1354	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1355	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1356	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1357	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1358	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1359	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1360	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R1361	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1362	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1363-65	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R1366	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1367	ERJ6ENF3000	M 300 OHM, 1/10W	1	
R1368	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1369	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R1370	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1371	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1372	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1373	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1374	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1375,76	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1377	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002
R1379	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1380	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1381	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1382	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1383	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1384	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1385	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R1387	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1388	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1389	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1390	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1391	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1392	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1393	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1394	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1395	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R1396	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R1402	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1403	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R1406	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1407	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1408	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1409,10	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R1415	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1417,18	ERJ6ENF56R0	M 56 OHM, 1/10W	2	
R1419	ERJ6ENF2000	M 200 OHM, 1/10W	1	
R1425,26	ERJ6ENF2001	M 2KOHM, 1/10W	2	
R1429	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1430	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	
R1431	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1433	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1434,35	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R1436	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1437	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R1440	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1443	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1453	ERJ3GEYJ180	M 18 OHM,J,1/16W	1	
R1454	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1455	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R1457	ERJ6GEYJ124	M 120KOHM,J,1/10W	1	
R1458	ERJ6ENF6201	M 6.2KOHM, 1/10W	1	
R1459	ERJ6ENF4751	M4.75KOHM, 1/10W	1	
R1460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1465	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1466	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1467	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1468	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1471	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1473	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R1474	ERJ6GEYJ274	M 270KOHM,J,1/10W	1	
R1475	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1476	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1477	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R1478	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1480,81	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R1482	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R1483	ERJ6GEYJ394	M 390KOHM,J,1/10W	1	
R1485	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1492	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1499	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R1560	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1561	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1562,63	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1564,65	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R1567	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	D0GB101JA002
R1570-73	EXB38V820J	RESISTOR ARRAY	4	
R1710	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1711	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1712	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1713	ERJ6ENF56R0	M 56 OHM, 1/10W	1	
R1714	ERJ6ENF3740	M 374 OHM, 1/10W	1	
R1715	ERJ6GEYJ391	M 390 OHM,J,1/10W	1	
R1717	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1718	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R1719	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1720	ERJ6ENF5600	M 560 OHM, 1/10W	1	
R1721	ERJ6ENF3740	M 374 OHM, 1/10W	1	
R1722	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R1724	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1725	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R1726	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1727	ERJ6ENF5100	M 510 OHM, 1/10W	1	
R1728	ERJ6ENF3740	M 374 OHM, 1/10W	1	
R1729	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R1735	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1736,37	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1750	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1751	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1752-54	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R1755	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R1756	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1757	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1758	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1769-72	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	4	
R1780-82	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R1790	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1792	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1796	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1800	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1803-05	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	3	
R1808,09	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	2	
R1820	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1822	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1824	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1825	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1826	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1830	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1832	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1833	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1835	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1836	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R1837	ERJ6ENF6802	M 68KOHM, 1/10W	1	
R1838	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R1840	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1850	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1851	ERJ3GEYJ751	M 750 OHM,J,1/16W	1	
R1870	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1871	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1872	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1873	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R1874	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1875	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1876	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1877	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R1878	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1879	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1880	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1882,83	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1884	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	
R1885	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R1900,01	ERJ3GEYJ393	M 39KOHM,J,1/16W	2	
R1902,03	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1904,05	ERJ3GEYJ393	M 39KOHM,J,1/16W	2	
R1908	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1909	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1910	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1911	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R1912,13	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1914	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R1924	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1926	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1929	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1934	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1935	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R2004	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R2006-08	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R2015	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2019	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2025,26	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R2030,31	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2033-36	ERJ6GEY0R00	M 0 OHM,J,1/10W	4	
R2039,40	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R2041	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2042	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2043,44	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2045	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R2051	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2255	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2256,57	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R2258	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2290	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R2291	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2292,93	ERDS2TJ222	C 2.2KOHM, J,1/4W	2	
R2294,95	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R2296	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R2297	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2301	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2303,04	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2305	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2307,08	ERD25FJ2R2	C 2.2 OHM, J,1/4W	2	
R2309,10	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2311	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2312	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2315	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R2316	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R2317	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2318	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2319	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R2321,22	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	2	
R2324-26	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R2327	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2328	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R2330	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2331	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2333	ER0S2CKF4702	M 47KOHM, F,1/4W	1	EROS2CKF4702
R2335	ERJ6ENF6802	M 68KOHM, 1/10W	1	
R2336	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2337	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R2338,39	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R2340-42	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R2343	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2344	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2345	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2346,47	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R2348	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2349	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2350,51	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2359	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2362,63	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R2367	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2370	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2372	ERJ6ENF6202	M 62KOHM, 1/10W	1	
R2373	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2375	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2379	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2380,81	ERDS2TJ222	C 2.2KOHM, J,1/4W	2	
R2382-84	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R2391	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2392	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2397	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R2423	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2455	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2483	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2498	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2499	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2546	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2547	ERJ6ENF1100	M 110 OHM, 1/10W	1	
R2563	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2564	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2565	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2566	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	
R2724	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2725	ERJ6ENF1301	M 1.3KOHM, 1/10W	1	
R2726	ERJ6ENF4121	M4.12KOHM, 1/10W	1	
R2727	ERJ6ENF2151	M2.15KOHM, 1/10W	1	
R2728	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R2731	ERJ6ENF2151	M2.15KOHM, 1/10W	1	
R2732	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R2901	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2902	ERDS2TJ683	C 68KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2903	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R2904,05	ERDS2TJ472	C 4.7KOHM, J,1/4W	2	
R2906	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2907	ERDS2TJ151	C 150 OHM, J,1/4W	1	
R2908	ERDS2TJ272	C 2.7KOHM, J,1/4W	1	
R2909	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2910	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2911	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2912	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2913	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R2914	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2915	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2916	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R2917	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R2918	ERDS2TJ182	C 1.8KOHM, J,1/4W	1	
R2919	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2920	ERDS2TJ181	C 180 OHM, J,1/4W	1	
R2921	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2922,23	ERDS1FJ152	C 1.5KOHM, J,1/2W	2	
R2924,25	ERDS2TJ271	C 270 OHM, J,1/4W	2	
R2926	ERQ14AJ100P	F 10 OHM, J,1/4W	1	
R2927,28	ERQ14AJ120P	F 12 OHM, J,1/4W	2	
R2929	ERDS2FJ122	C 1.2KOHM, J,1/4W	1	
R2930	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2931,32	ERDS2TJ683	C 68KOHM, J,1/4W	2	
R2933	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2934	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R2935	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2936	ERDS2FJ100	C 10 OHM, J,1/4W	1	
R2937	ERDS2TJ100	C 10 OHM, J,1/4W	1	
R2938	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2939	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R2940	ERG2FJS151D	M 150 OHM, J, 2W	1	
R2950	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2951	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2952	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2953,54	ERDS1FJ152	C 1.5KOHM, J,1/2W	2	
R2955,56	ERDS2TJ271	C 270 OHM, J,1/4W	2	
R2957	ERQ14AJ100P	F 10 OHM, J,1/4W	1	
R2958,59	ERQ14AJ120P	F 12 OHM, J,1/4W	2	
R2960	ERDS2FJ122	C 1.2KOHM, J,1/4W	1	
R2961	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2962,63	ERDS2TJ683	C 68KOHM, J,1/4W	2	
R2964	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2965	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R2966	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2967	ERDS2FJ100	C 10 OHM, J,1/4W	1	
R2968	ERDS2TJ100	C 10 OHM, J,1/4W	1	
R2969	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2970	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R2971	ERG2FJS151D	M 150 OHM, J, 2W	1	
R2975	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2976	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2977	ERDS2TJ271	C 270 OHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2978,79	ERDS1FJ152	C 1.5KOHM, J,1/2W	2	
R2980,81	ERDS2TJ271	C 270 OHM, J,1/4W	2	
R2982	ERQ14AJ100P	F 10 OHM, J,1/4W	1	
R2983,84	ERQ14AJ120P	F 12 OHM, J,1/4W	2	
R2985	ERDS2FJ122	C 1.2KOHM, J,1/4W	1	
R2986	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2987,88	ERDS2TJ683	C 68KOHM, J,1/4W	2	
R2989	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2990	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R2991	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2992	ERDS2FJ100	C 10 OHM, J,1/4W	1	
R2993	ERDS2TJ100	C 10 OHM, J,1/4W	1	
R2994	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2995	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R2996	ERG2FJS151D	M 150 OHM, J, 2W	1	
R3012,13	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3014	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3015	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R3016	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3017-20	ERJ6GEYJ221	M 220 OHM,J,1/10W	4	
R3021	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R3022,23	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3025-27	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R3028	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3029,30	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R3031	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R3033,34	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3037	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3038	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3044	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3049	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R3050	ERJ6ENF5600	M 560 OHM, 1/10W	1	
R3051	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3052,53	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3054	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3055-58	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R3059	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3062	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3065	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3067	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3068	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3071	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R3073	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3074	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3076	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3077-79	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	3	
R3084-90	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	7	
R3091-96	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3116	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R3122	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R3123	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R3124	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R3125	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3126	ERJ6GEYJ121	M 120 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3127	ERJ6GEYJ390	M 39 OHM,J,1/10W	1	
R3128	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3129,30	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R3326	ERJ6ENF1272	M12.7KOHM, 1/10W	1	
R3355	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3356	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3357	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3365	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3366	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3367	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3375	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3376	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3377	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3412	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3421	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3422	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3455	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R3456	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3457	ERJ6GEYJ750	M 75 OHM,J,1/10W	1	
R3458	ERJ8GEYJ331	M 330 OHM, J,1/8W	1	
R6704	ERF2AK5R6	W 5.6 OHM, K, 2W	1	
R7008	ERJ6GEYJ273	M 27KOHM,J,1/10W	1	
R7009	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7010	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7011	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7012	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7013	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7014	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7015	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7016	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7017	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7018	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7019	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7020	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R7021	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7022	ERJ6GEYJ273	M 27KOHM,J,1/10W	1	
R7023	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7024-29	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	6	
R7030	ERG2FJS121D	M 120 OHM, J, 2W	1	
R7031-33	ERG2FJS820D	M 82 OHM, J, 2W	3	
R7034	ERG2FJS121D	M 120 OHM, J, 2W	1	
R7035	ERG2FJS820D	M 82 OHM, J, 2W	1	
R7036-39	ER0S2CKF10R0	M 10 OHM, F,1/4W	4	
R7040-47	ER0S2CKF20R0	M 20 OHM, F,1/4W	8	EROS2CKF20R0
R7048-51	ER0S2CKF10R0	M 10 OHM, F,1/4W	4	
R7052-59	ER0S2CKF20R0	M 20 OHM, F,1/4W	8	EROS2CKF20R0
R7060-63	ER0S2CKF10R0	M 10 OHM, F,1/4W	4	
R7064-71	ER0S2CKF20R0	M 20 OHM, F,1/4W	8	EROS2CKF20R0
R7080	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7085	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7090-95	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	6	
R7101-03	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R7104,05	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R7106-08	ERJ6ENF4702	M 47KOHM, 1/10W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7109	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R7111	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7114-17	ERJ6ENF4702	M 47KOHM, 1/10W	4	
R7118-21	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	4	
R7122	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7123	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7124,25	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7126	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7127	ERJ6ENF6200	M 620 OHM, 1/10W	1	
R7128	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R7129	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7130	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7131	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R7134,35	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R7141	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7142	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7143	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7144	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7145	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7146	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7147	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7148	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7149	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7150	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7151	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7152	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7153	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7154	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7155	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7157,58	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R7163,64	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7165-69	ERJ6GEYJ103	M 10KOHM,J,1/10W	5	
R7170-72	ERJ6GEYJ330	M 33 OHM,J,1/10W	3	
R7185	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7186	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R7187	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7188	ERJ6GEYJ181	M 180 OHM,J,1/10W	1	
R7189	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R7190	ERG1SJ820	M 82 OHM, J, 1W	1	
R7191	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R7194,95	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R7196-98	ERJ6GEYJ271	M 270 OHM,J,1/10W	3	
R7701-03	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7705	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7707	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7709	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7716	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7717-19	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R7724-26	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	3	
R7727-29	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7733	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R7734	ER0S2CKF2490	M24.9 OHM, F,1/4W	1	EROS2CKF2490
R7735	ER0S2CKF1500	M 150 OHM, F,1/4W	1	
R7736	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	

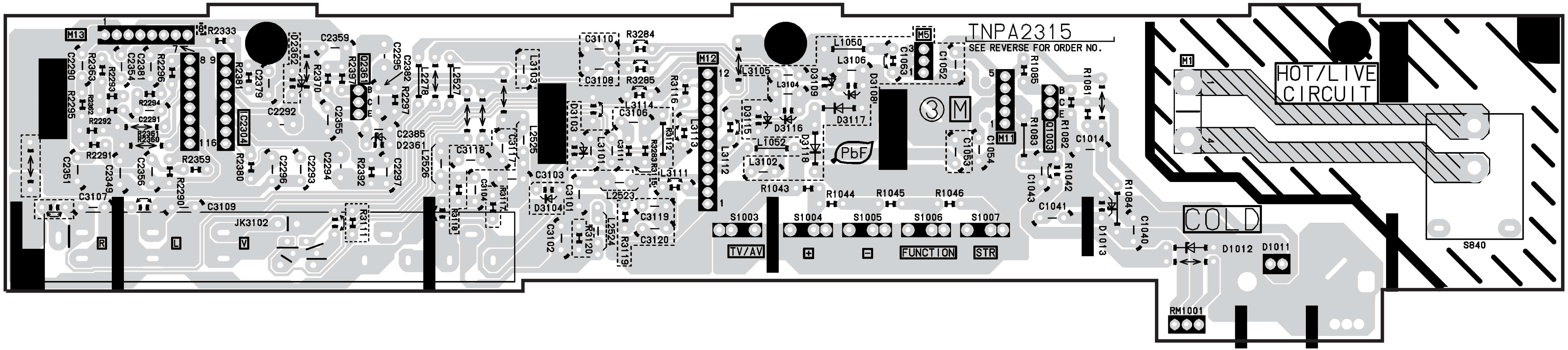
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7737	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R7738	ER0S2CKF2490	M24.9 OHM, F,1/4W	1	EROS2CKF2490
R7739	ER0S2CKF1500	M 150 OHM, F,1/4W	1	
R7740	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7741	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R7742	ER0S2CKF2490	M24.9 OHM, F,1/4W	1	EROS2CKF2490
R7743	ER0S2CKF1500	M 150 OHM, F,1/4W	1	
R7744	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7745	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7746-48	ERJ6ENF1000	M 100 OHM, 1/10W	3	
R7750-52	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R7753	ERJ6ENF3901	M 3.9KOHM, 1/10W	1	
R7754	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R7755	ERJ6ENF2000	M 200 OHM, 1/10W	1	
R7756	ERJ6ENF1000	M 100 OHM, 1/10W	1	
R7757	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R7758-61	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7762	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R7763	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7765	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R7766,67	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R7771	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7772	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R7773	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7776-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	3	
R7779	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7780	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R7781	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7782	ERJ6ENF39R0	M 39 OHM, 1/10W	1	
R7788	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7789	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7790	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7791	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7792	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7793	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7794	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7795-97	ER0S2CKF1500	M 150 OHM, F,1/4W	3	
R7801	ERJ6ENF2700	M 270 OHM, 1/10W	1	
R7802	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7803	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7804	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R7805	ERJ6ENF2700	M 270 OHM, 1/10W	1	
R7806	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7807	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7808	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R7809	ERJ6ENF2700	M 270 OHM, 1/10W	1	
R7810	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7811	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7812	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R9301	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R9303	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R9304	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R9306	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R9318	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9319	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R9320	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R9602	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R9603	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R9604-06	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	
R9607	ERG2FJS222D	M 2.2KOHM, J, 2W	1	
R9608	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R9609	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R9610	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R9611-15	ERG2FJS333D	M 33KOHM, J, 2W	5	
R9616	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R9617	ERJ6ENF2801	M 2.8KOHM, 1/10W	1	
R9618	ERJ6ENF2741	M2.74KOHM, 1/10W	1	
R9619	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R9620	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R9621	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R9622	ERC12GK103	S 10KOHM, K,1/2W	1	
R9623	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R9624	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R9625	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R9626	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R9627	ERJ6ENF2742	M27.4KOHM, 1/16W	1	
RL801	K6B1ADA00010	RELAY	1	⚠
RL802	TSEH8011	RELAY	1	K6B1AGA00043 ⚠
RL3401	TSEH8017	SWITCH	1	K6B2CFA00015
RM1001	PNA4601M04TV	REMOTE CONTROL RECEIVER	1	
RTL	TZTNP020GFV	CIRCUIT BOARD A	1	⚠
RTL	TZTNP010GHV	CIRCUIT BOARD D	1	TX-47P500HZ ⚠
RTL	TZTNP010GFV	CIRCUIT BOARD D	1	TX-47P500HQ/HM ⚠
RTL	TZTNP010GJV	CIRCUIT BOARD D	1	TX-47P500X ⚠
RTL	TNPA1970AP	CIRCUIT BOARD H	1	⚠
RTL	TNPA2316AJ	CIRCUIT BOARD P	1	TX-47P500HM ⚠
RTL	TNPA2316AK	CIRCUIT BOARD P	1	TX-47P500HQ/HZ ⚠
RTL	TNPA2316AL	CIRCUIT BOARD P	1	TX-47P500X ⚠
RTL	TXN/U10GFV	CIRCUIT BOARD U	1	⚠
RTL	TXNDG10GFV	CIRCUIT BOARD DG	1	⚠
RTL	TNPA2332AD	CIRCUIT BOARD LR	1	⚠
RTL	TNPA2333AD	CIRCUIT BOARD LG	1	⚠
RTL	TNPA2334AD	CIRCUIT BOARD LB	1	⚠
RTL	TNPA2315	CIRCUIT BORD M	1	⚠
RTL	TNPA2469	CIRCUIT BOARD SG	1	⚠
RTL	TNPA2470	CIRCUIT BOARD SR	1	⚠
RTL	TNPA2471	CIRCUIT BOARD SB	1	⚠

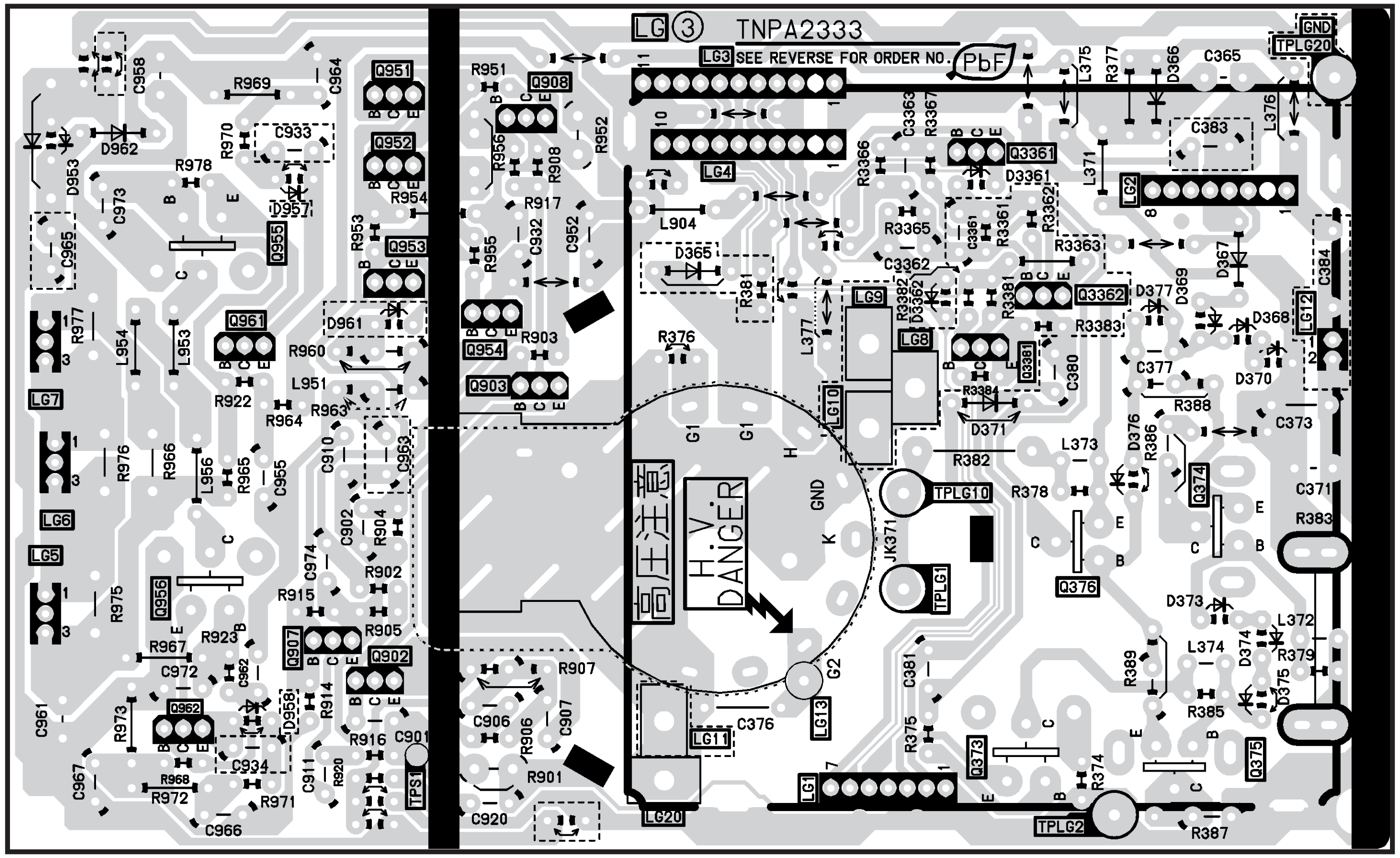
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
S840	ESB92S11B	SWITCH	1	⚠
S1003-07	EVQ23405R	SWITCH	5	
SB1	TJS3A9670	6P CONNECTOR	1	K1KA06A00179
SG1	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
SG2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
SG3,G4	TJS3A9670	6P CONNECTOR	2	K1KA06A00179
SR1	TJS3A9670	6P CONNECTOR	1	K1KA06A00179
T501	ETH19K135AY	H DRIVE TRANS	1	
T551	KFT7AA334F1	FLYBACK TRANS	1	TX-47P500HM/HQ/X ⚠
T551	KFT7AA334F2	FLYBACK TRANS	1	TX-47P500HZ ⚠
T801	ETS42AE2X6AC	POWER TRANS	1	⚠
T881	TLPA078	REMOCON TRANS	1	ETS19AB186AG TX-47P500X ⚠
T881	ETS19AB186AG	SWITCHING TRANS	1	TX-47P500HM/HQ/HZ ⚠
TNR001	ENGF9103G	TUNER	1	⚠
TNR002	ENG39607G	TUNER	1	⚠
U1,U2	K1KB30A00092	30P CONNECTOR	2	
X1301,02	TSSA171	CRYSTAL	2	
X2101	TSSA128	CRYSTAL	1	H0D184500008
X3501	H0J600400006	CRYSTAL	1	

18. Schematic Diagram for printing with A4

M-BOARD
TNPA2315

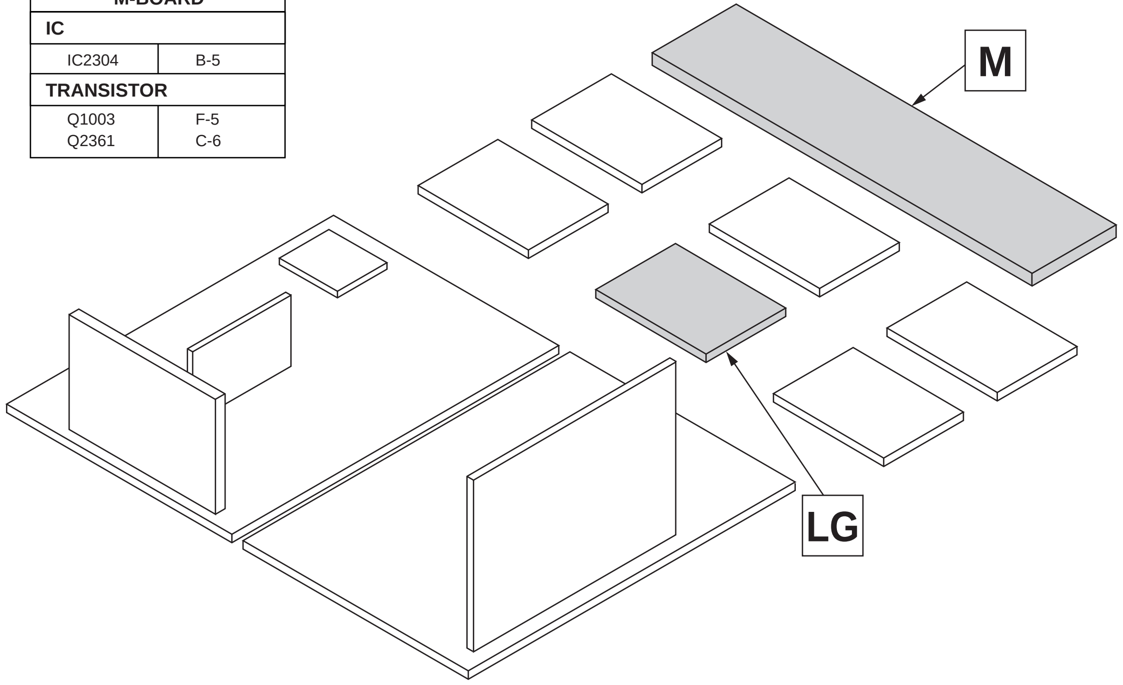

TNPA2315
SEE REVERSE FOR ORDER NO.
HOT/LIVE CIRCUIT
COLD
PbF
③M
M13
M12
M11
M5
M1
IC2304
Q2361
Q1003
JK3102
S1003
S1004
S1005
S1006
S1007
TV/AV
FUNCTION
STR
D1012
D1011
RM1001
S840
R
L
V

LG-BOARD
TNPA2333AD


LG③
TNPA2333
SEE REVERSE FOR ORDER NO.
PbF
GND
TPLG20
LG3
LG4
LG2
LG9
LG8
LG10
LG12
LG7
LG6
LG5
LG11
LG13
LG1
LG20
TPLG10
TPLG1
TPLG2
TPS1
JK371
H.V. DANGER
高圧注意
G1
G2
H
K
GND

Parts Location

M-BOARD	
IC	
IC2304	B-5
TRANSISTOR	
Q1003	F-5
Q2361	C-6



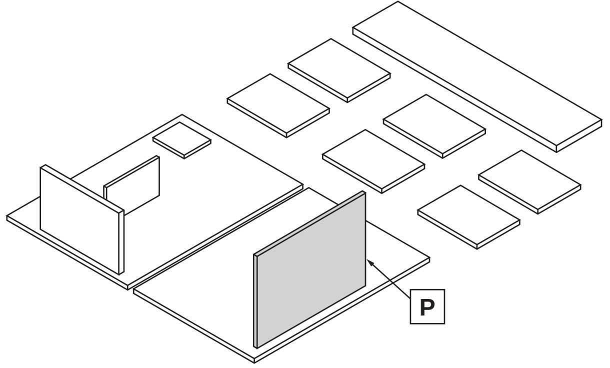
Parts Location

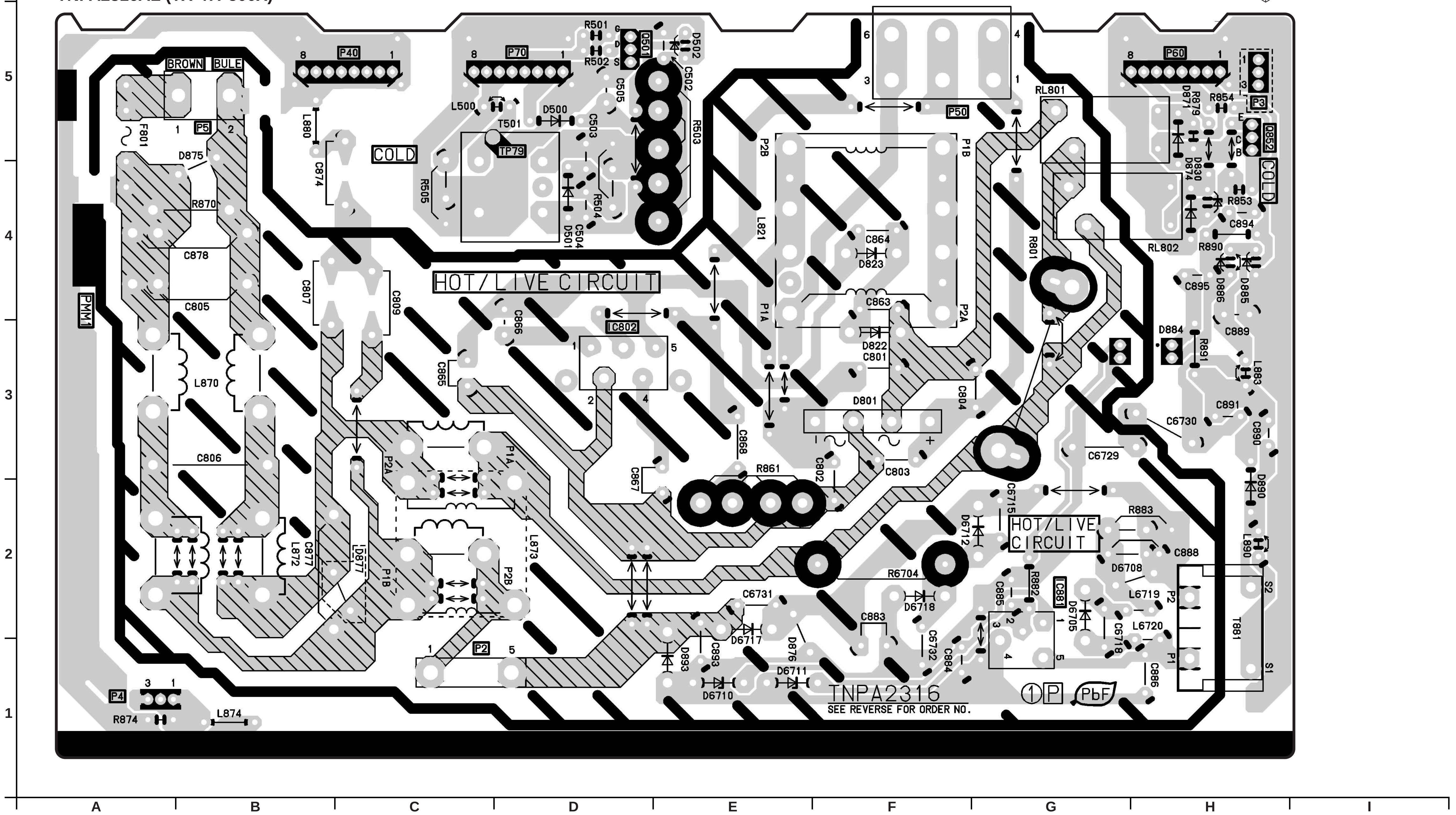
LG-BOARD					
TRANSISTOR		Q952	B-3	**TPLG**	
Q373	D-1	Q953	B-3	TPLG1	D-2
Q374	E-2	Q954	C-3	TPLG2	E-1
Q375	E-1	Q955	B-3	TPLG10	D-2
Q376	E-2	Q956	A-2	TPLG20	F-4
Q902	B-2	Q961	B-3	**TPS**	
Q903	C-3	Q962	A-1	TPS1	B-1
Q907	B-2	Q3361	E-3		
Q908	C-4	Q3362	E-3		
Q951	B-4	Q3381	E-3		

P-BOARD
TNPA2316AJ (TX-47P500HM)
TNPA2316AK (TX-47P500HQ/HZ)
TNPA2316AL (TX-47P500X)

Parts Location

P-BOARD			
IC		**TP**	
IC802	D-3	TP79	D-5
IC881	G-2		
TRANSISTOR			
Q501	D-5		
Q852	H-5		

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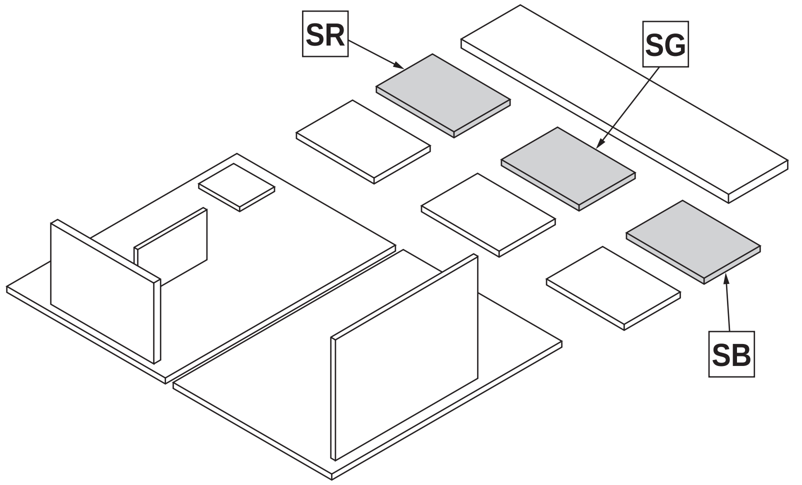
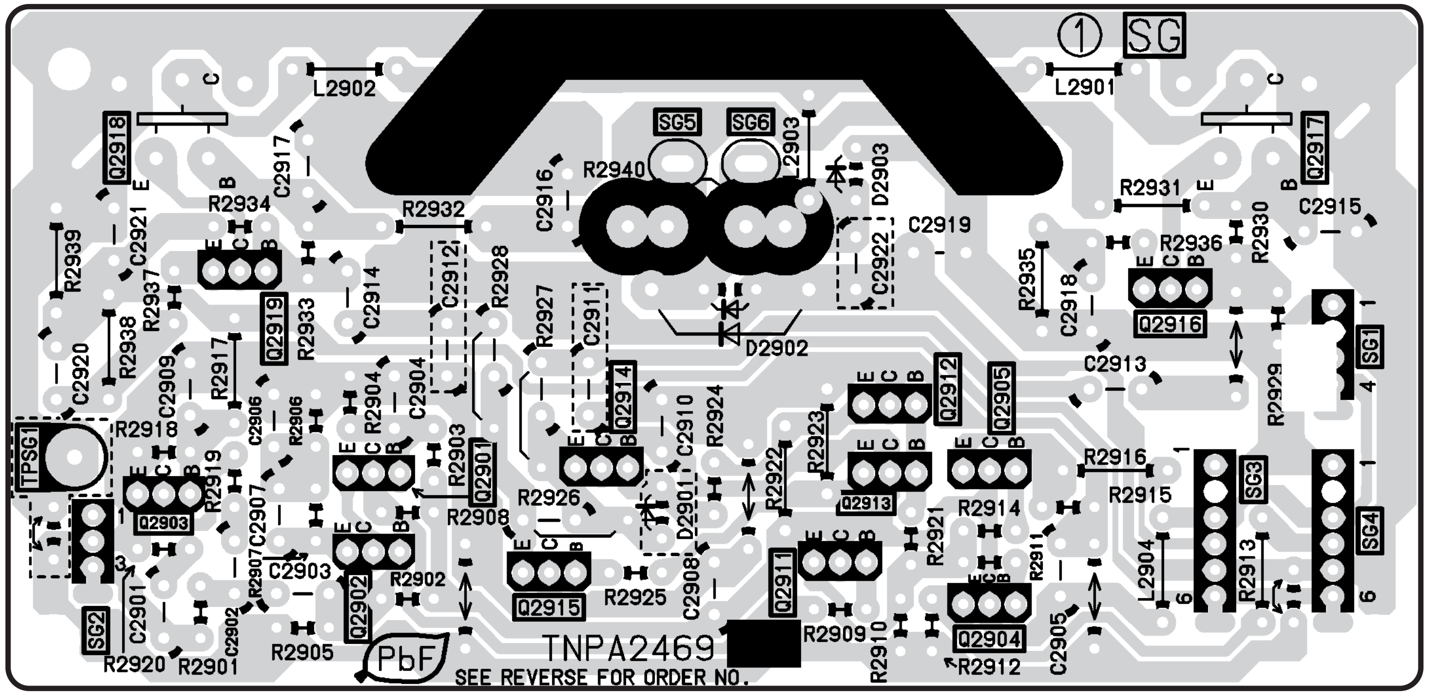
5
4
3
2
1
A
B
C
D
E
F
G
H
I
BROWN
BULE
P5
F801
D875
R870
C878
C805
L870
C806
L872
C877
D877
PMM1
P40
8
1
P70
L880
C874
COLD
R505
L500
T501
TP79
D500
C503
R501
R502
Q501
G
D
S
D502
C502
C505
R503
R504
C504
D501
HOT/LIVE CIRCUIT
C807
C809
C866
C865
IC802
C868
C867
R861
P2A
P1A
P1B
P2B
L873
P2
L821
C864
D823
C863
D822
C801
D801
C802
C803
C804
P50
RL801
R801
6
4
3
1
P60
P3
R854
R879
D871
Q852
E
C
B
D830
D874
R853
C894
RL802
R890
C895
D886
D885
D884
R891
C889
L883
C891
C6730
C890
C6729
C6715
D6712
R883
HOT/LIVE CIRCUIT
C888
D6708
L6719
L6720
C6718
D6705
IC881
R882
C885
C6731
R6704
D6718
C883
D6717
D876
C6732
C884
C893
D893
D6710
D6711
D890
L890
T881
S2
S1
P1
C886
TNPA2316
SEE REVERSE FOR ORDER NO.
1P
PbF
P4
R874
L874



SG-BOARD
TNPA2469


① SG
SG5
SG6
SG1
SG2
SG3
SG4
TPSG1
L2901
L2902
L2903
L2904
Q2901
Q2902
Q2903
Q2904
Q2905
Q2911
Q2912
Q2913
Q2914
Q2915
Q2916
Q2917
Q2918
Q2919
D2901
D2902
D2903
C2901
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C2908
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C2910
C2911
C2912
C2913
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C2916
C2917
C2918
C2919
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C2921
C2922
R2901
R2902
R2903
R2904
R2905
R2906
R2907
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R2909
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R2911
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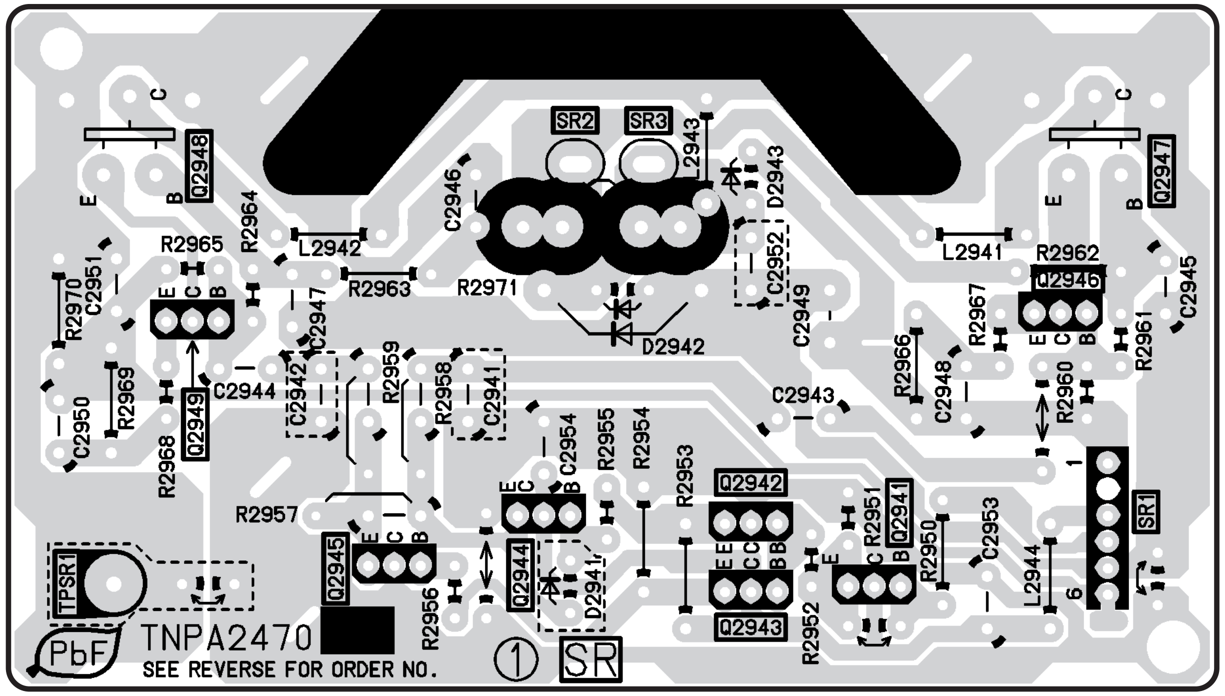
R2929
R2930
R2931
R2932
R2933
R2934
R2935
R2936
R2937
R2938
R2939
R2940
PbF
TNPA2469
SEE REVERSE FOR ORDER NO.

SR-BOARD
TNPA2470


① SR
SR1
SR2
SR3
TPSR1
L2941
L2942
L2943
L2944
Q2941
Q2942
Q2943
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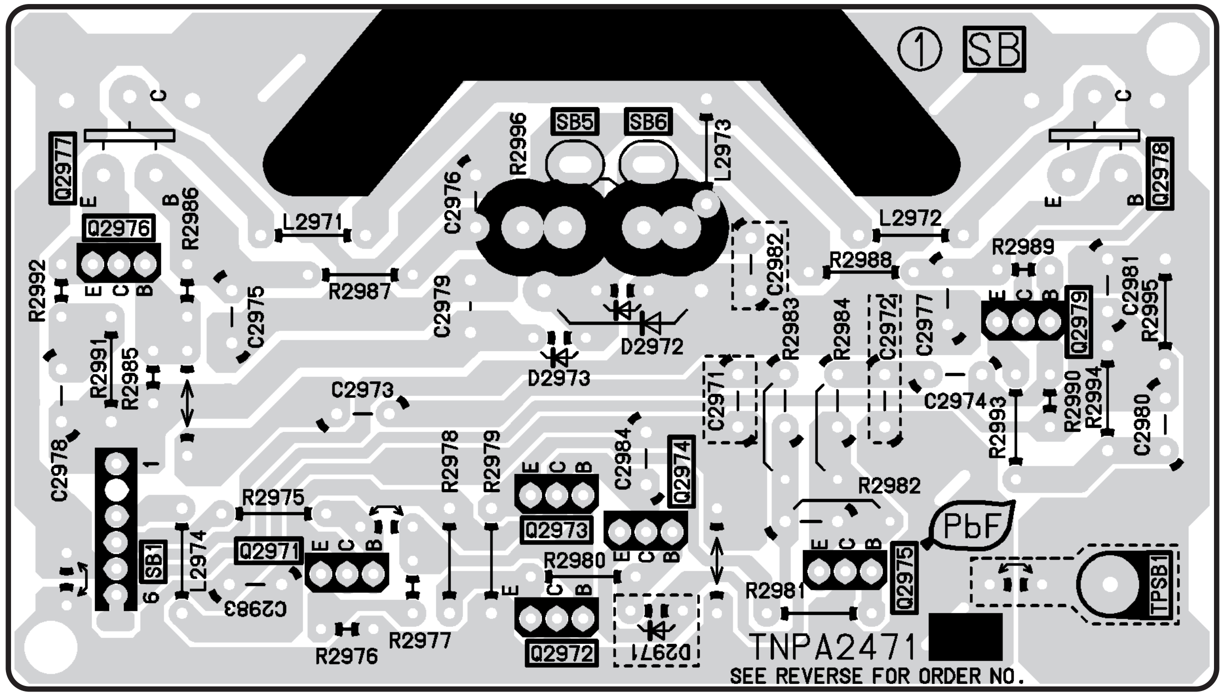
R2962
R2963
R2964
R2965
R2966
R2967
R2968
R2969
R2970
R2971
PbF
TNPA2470
SEE REVERSE FOR ORDER NO.

SB-BOARD
TNPA2471


① SB
SB1
SB5
SB6
TPSB1
L2971
L2972
L2973
L2974
Q2971
Q2972
Q2973
Q2974
Q2975
Q2976
Q2977
Q2978
Q2979
D2971
D2972
D2973
C2971
C2972
C2973
C2974
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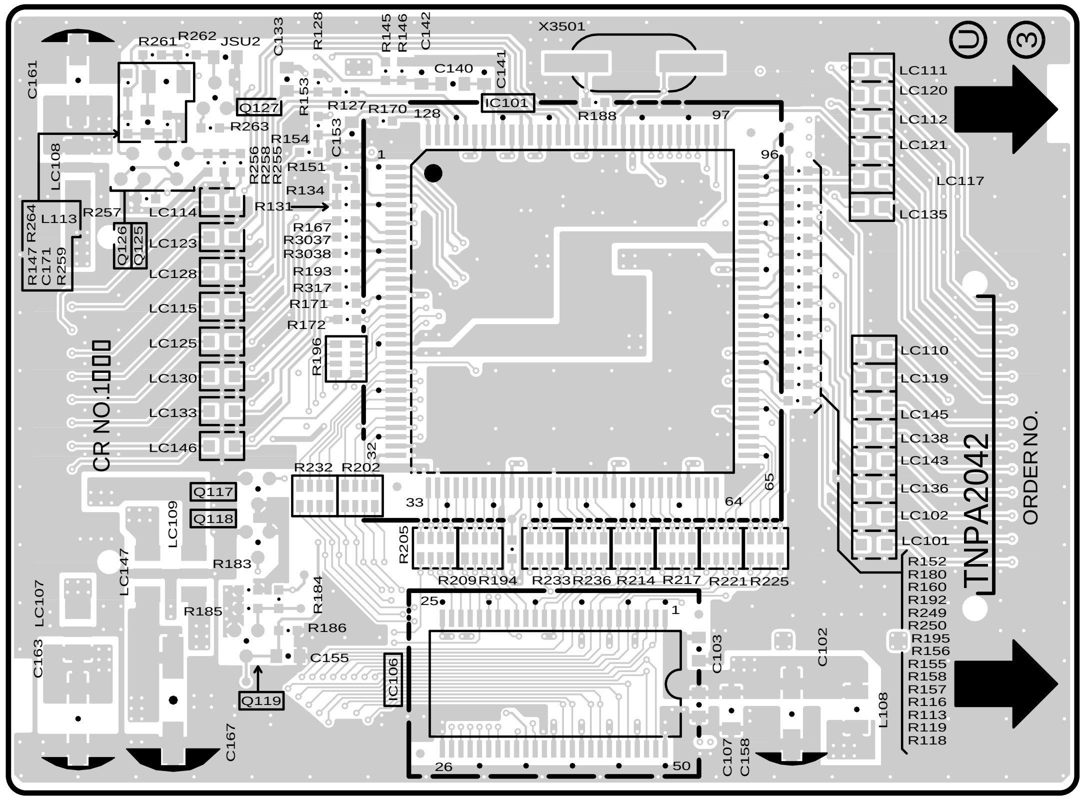
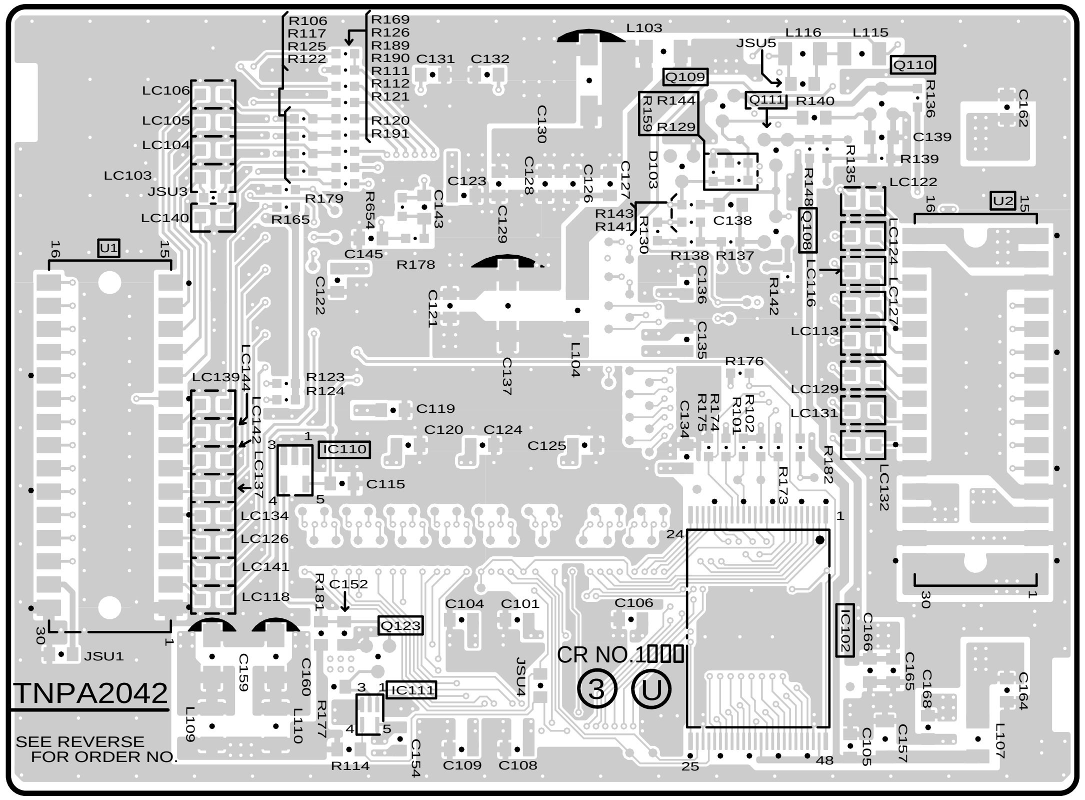
R2988
R2989
R2990
R2991
R2992
R2993
R2994
R2995
R2996
PbF
TNPA2471
SEE REVERSE FOR ORDER NO.

U-BOARD (COMPONENT SIDE)
TXN/U10GFV



U
3
X3501
IC101
IC106
Q117
Q118
Q119
Q125
Q126
Q127
CR NO.1
TNPA2042
ORDER NO.
LC101
LC102
LC110
LC111
LC112
LC114
LC117
LC119
LC120
LC121
LC123
LC125
LC128
LC130
LC133
LC135
LC136
LC138
LC143
LC145
LC146
LC147
C102
C103
C107
C133
C140
C141
C142
C155
C158
C161
C163
C167
L108
JSU2

U-BOARD (FOIL SIDE)
TXN/U10GFV



IC102
IC110
IC111
U1
U2
Q108
Q109
Q110
Q111
Q123
JSU1
JSU3
JSU4
JSU5
CR NO.1
3
U
TNPA2042
SEE REVERSE
FOR ORDER NO.
L103
L104
L107
L109
L110
L115
L116

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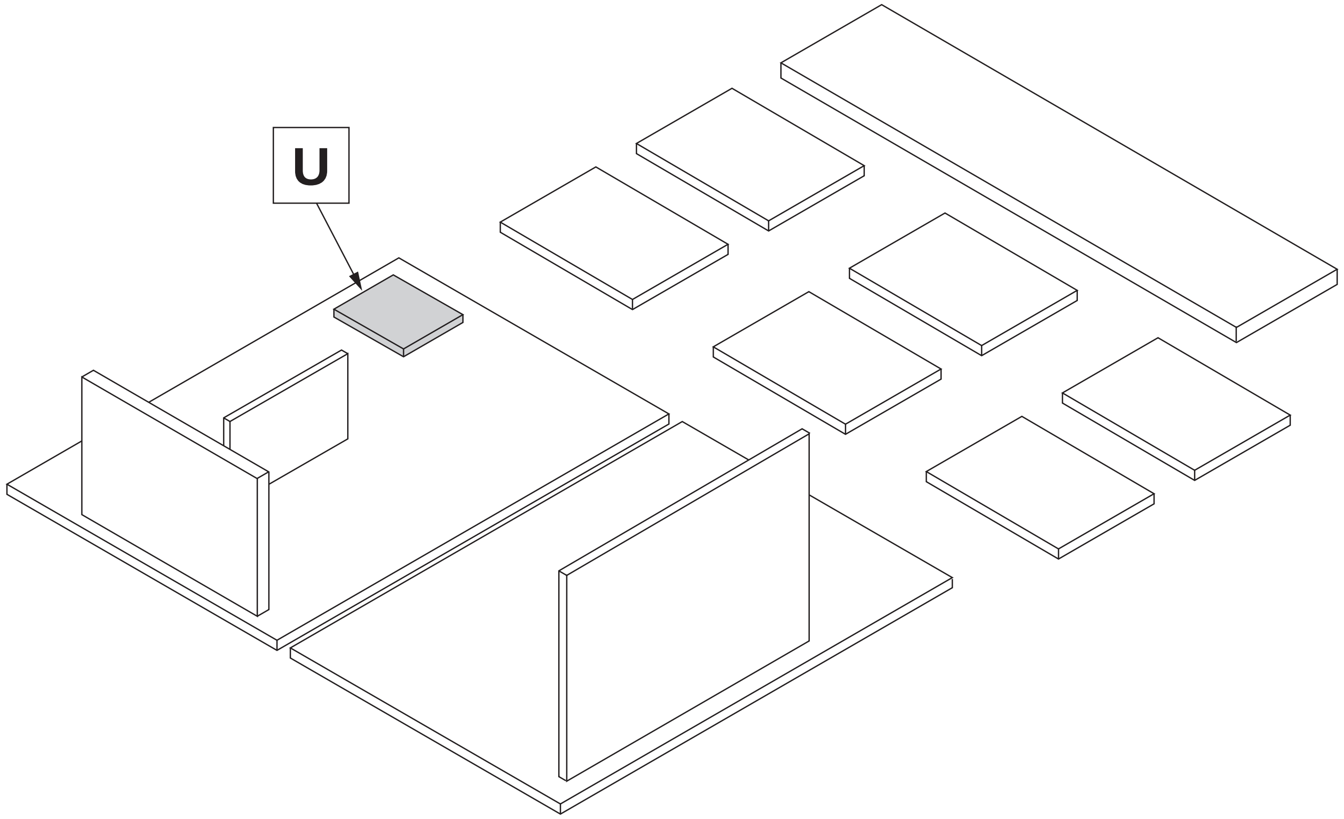
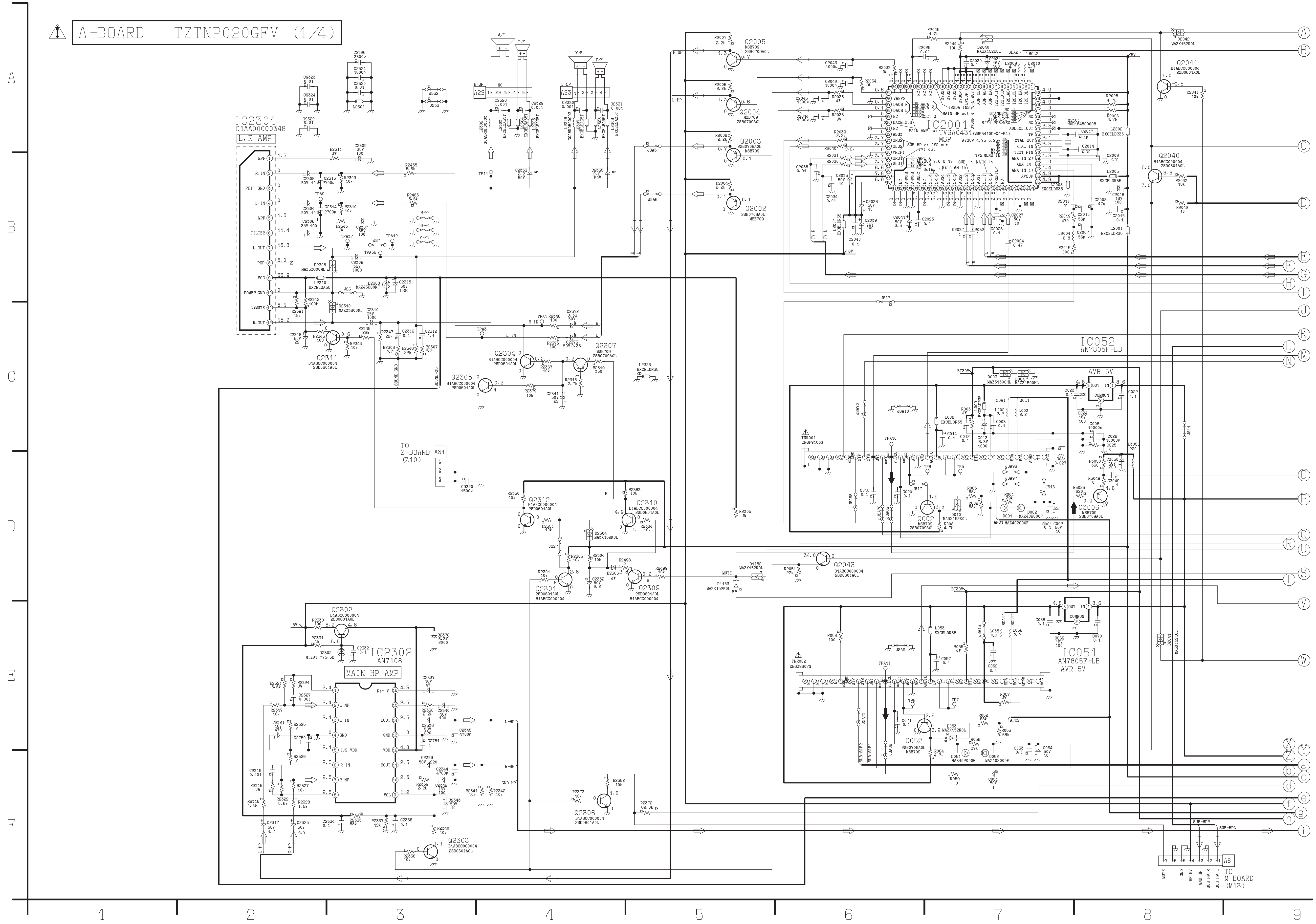
5
4
3
2
1
A
B
C
D



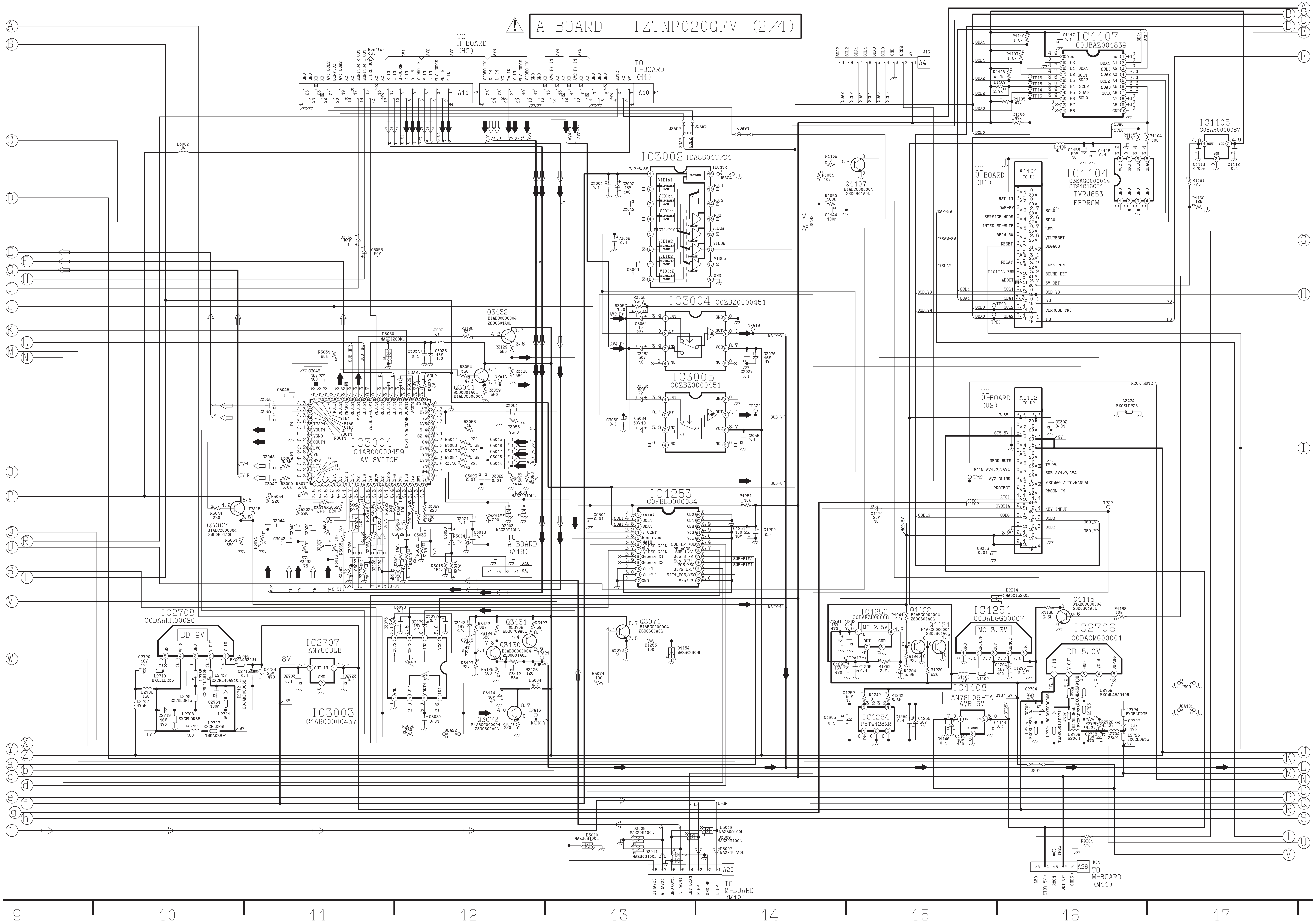
Parts Location

U-BOARD			
IC		**TRANSISTOR**	
IC1101	B-6	Q1108	C-3
IC1102	C-1	Q1109	C-3
IC1106	B-4	Q1110	D-3
IC1110	B-2	Q1111	C-3
IC1111	B-1	Q1117	A-5
		Q1118	A-5
		Q1119	B-4
		Q1123	B-1
		Q1125	A-5
		Q1126	A-5
		Q1127	B-6

⚠ A-BOARD TZTNP020GFV (1/4)


IC2301
C1AA00000348
L,R AMP
IC2302
AN7108
MAIN-HP AMP
IC2001
TVSA0431
MSP
(MSP3410D-QA-B4)
IC052
AN7805F-LB
AVR 5V
IC051
AN7805F-LB
AVR 5V
TNR001
ENGP9103G
TNR002
ENG39607G
TO
Z-BOARD
(Z10)
A31
TO
M-BOARD
(M13)
A8
A22
R-SP
A23
L-SP
W/F
T/F
Q2001
Q2002
Q2003
Q2004
Q2005
Q2040
Q2041
Q2043
Q2301
Q2302
Q2303
Q2304
Q2305
Q2306
Q2307
Q2309
Q2310
Q2311
Q2312
Q002
Q052
Q3006
X2101
HOD18450008
MUTE
GND
HP 8V
SUB HP R
SUB HP L
SUB-HPR
SUB-HPL
L-HP
R-HP
GND-HP
BT30V
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F

⚠ A-BOARD TZTNP020GFV (2/4)



TO H-BOARD (H2)
TO H-BOARD (H1)
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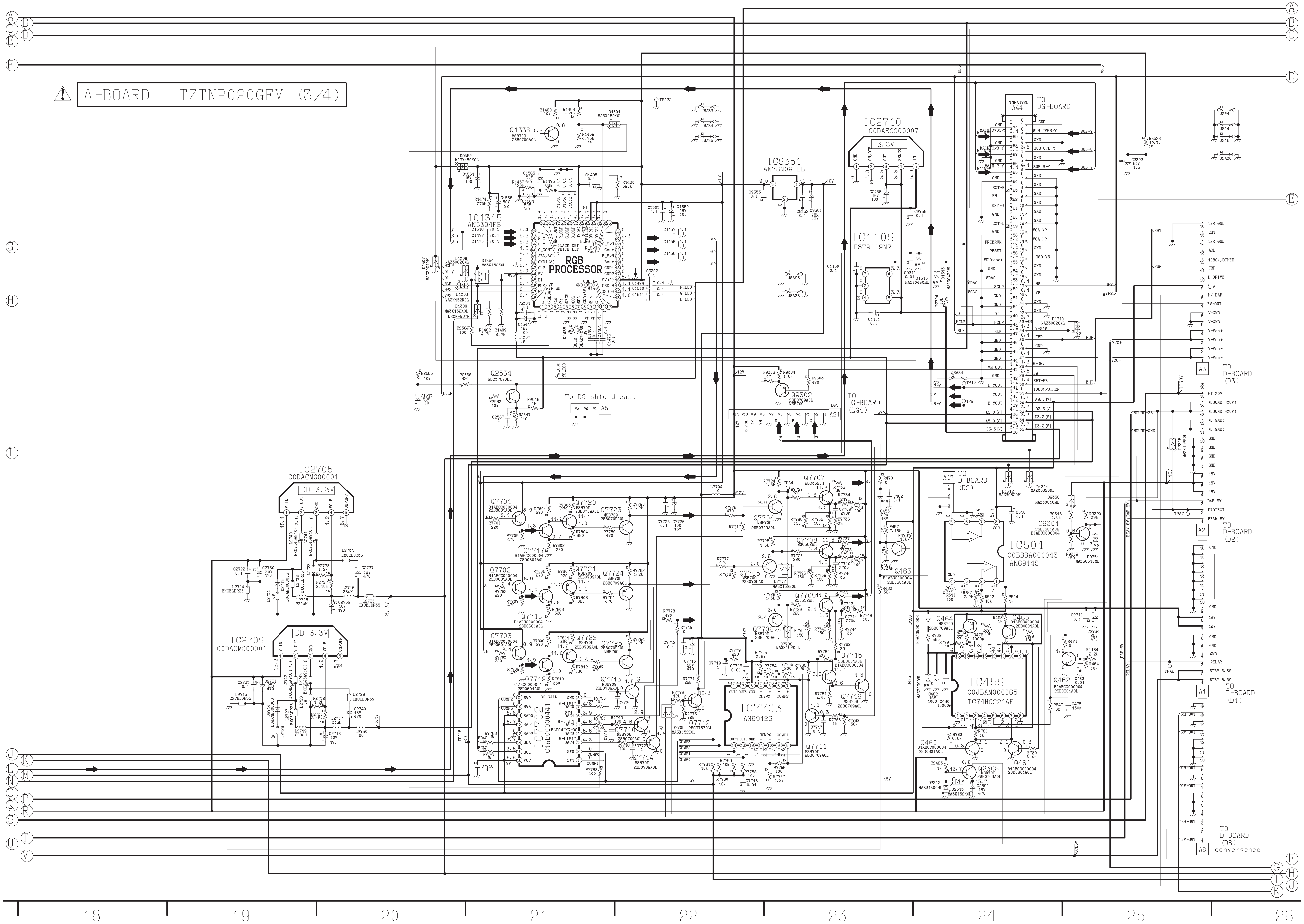
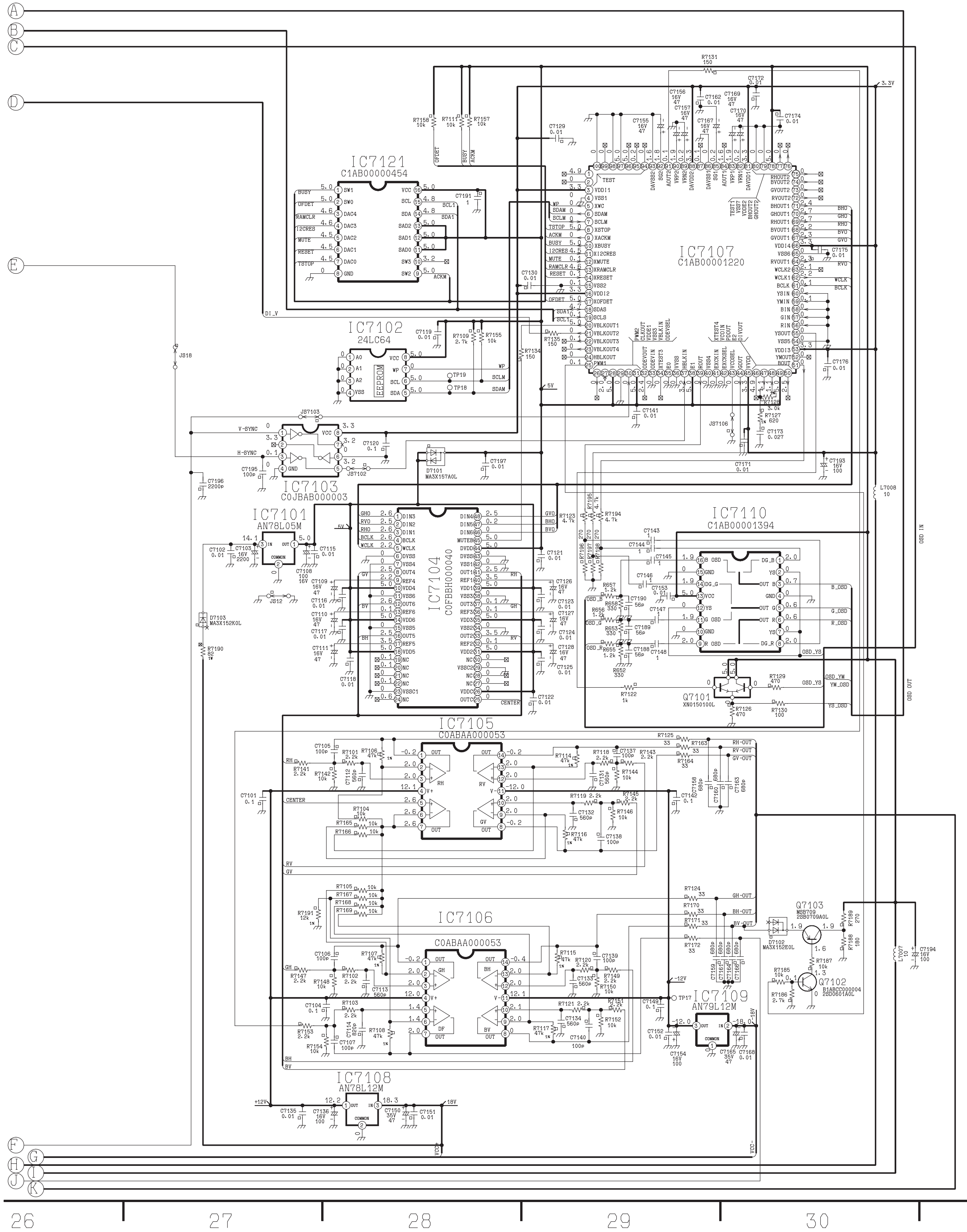
A10
J1G
A4
IC1107
C0JBAZ001839
IC1105
C0EAH0000067
IC3002 TDA8601T/C1
IC1104
C3EAGC000014
ST24C16CB1
TVRJ653
EEPROM
TO U-BOARD (U1)
A1101
Q1107
B1ABCC000004
2SD0601A0L
IC3004 C0ZBZ0000451
IC3005 C0ZBZ0000451
IC3001
C1AB00000459
AV SWITCH
Q3132
Q3011
Q3007
TO A-BOARD (A18)
A9
IC1253
C0FBBD000084
TO U-BOARD (U2)
A1102
IC2708
C0DAAHH00020
DD 9V
IC2707
AN7808LB
8V
IC3003
C1AB00000437
Q3131
Q3130
Q3072
Q3071
IC1252
C0DAEZH00008
MC 2.5V
Q1122
Q1121
IC1251
C0DAEGG00007
MC 3.3V
Q1115
IC2706
C0DACMG00001
DD 5.0V
IC1254
PST9128NR
IC1108
AN78L05-TA
AVR 5V
TO M-BOARD (M12)
A25
TO M-BOARD (M11)
A26
9
10
11
12
13
14
15
16
17

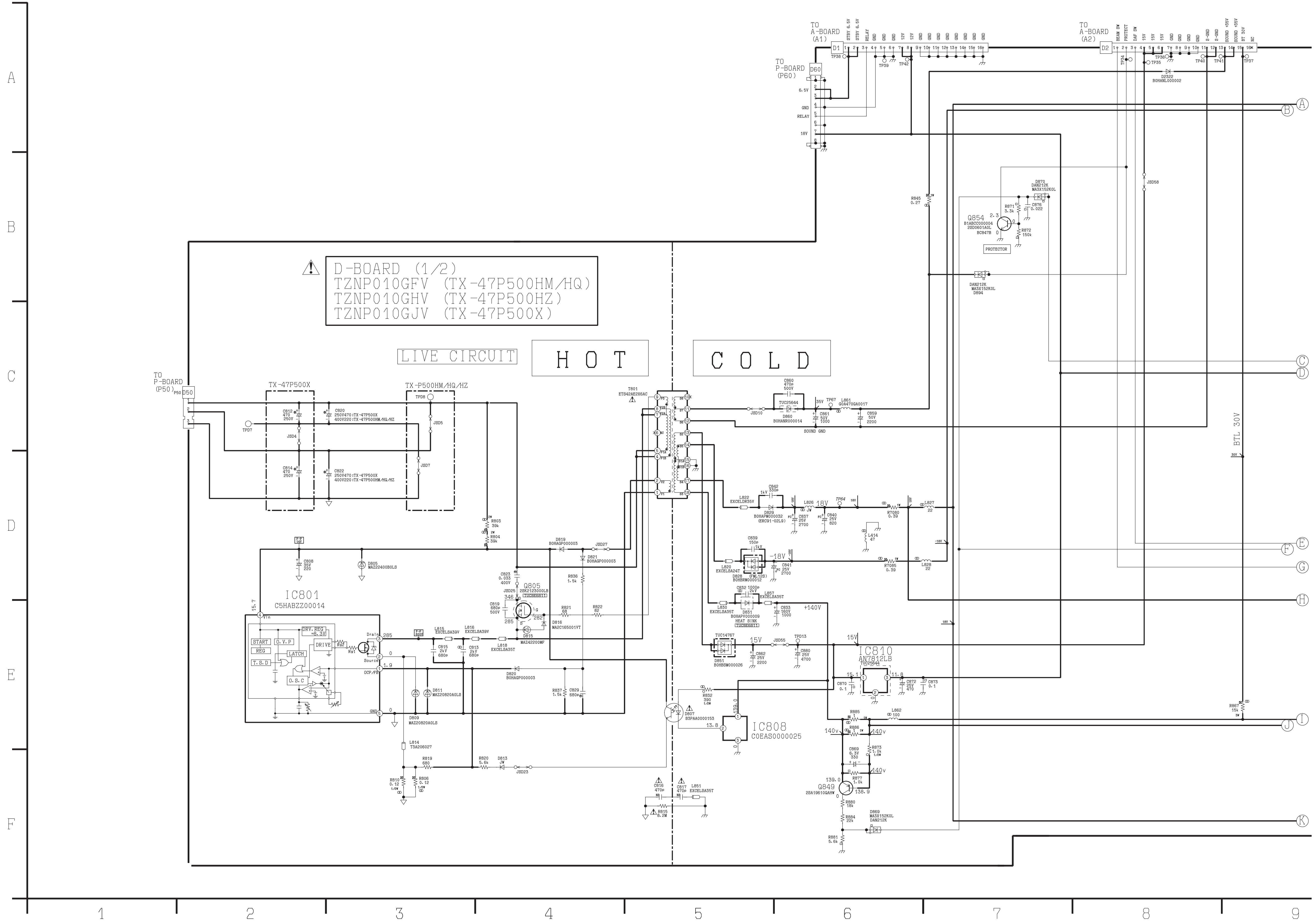
⚠ A-BOARD TZTNP020GFV (3/4)



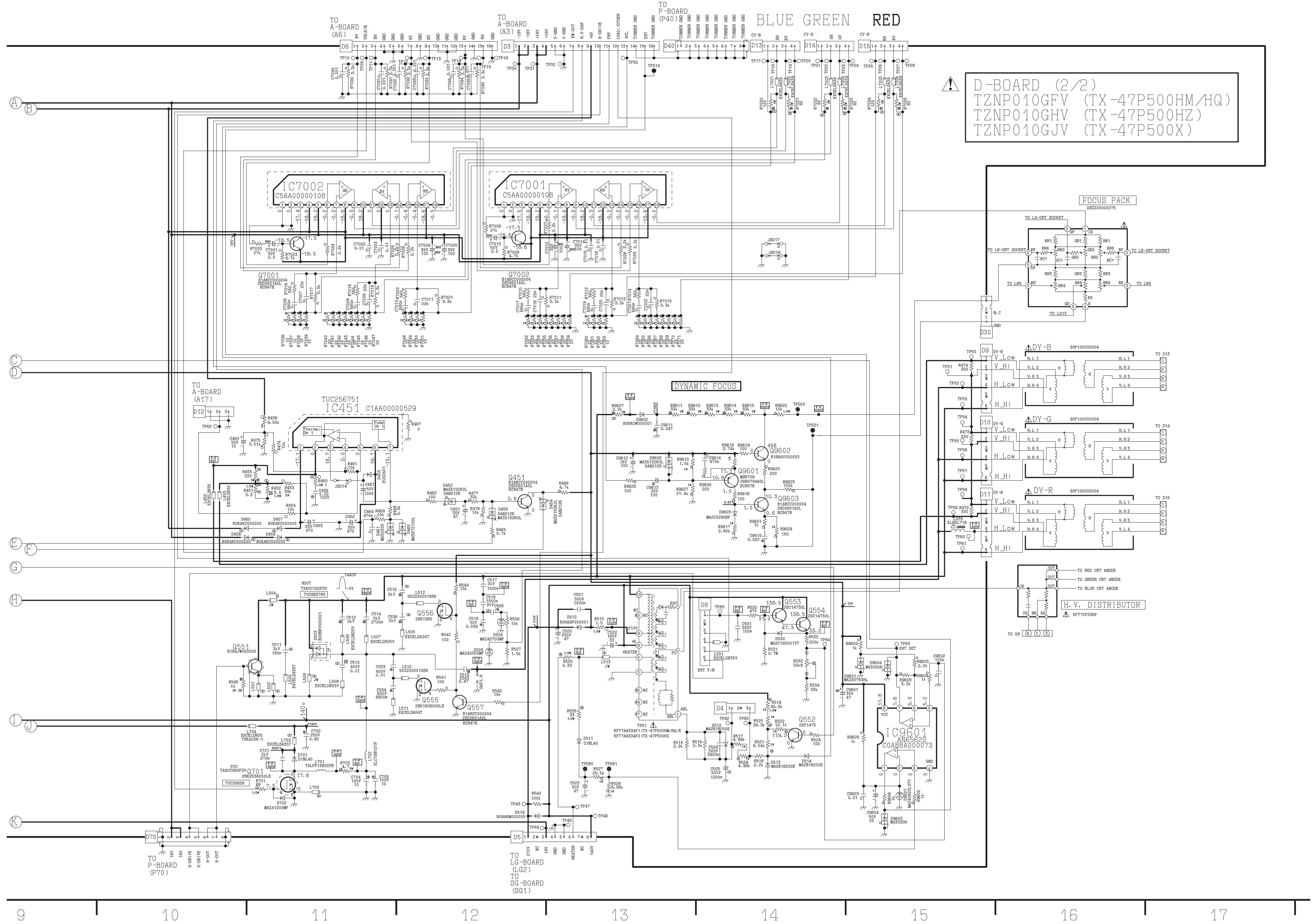
IC1315
AN5394FB
RGB PROCESSOR
IC2710
C0DAEGG00007
3.3V
IC9351
AN78N09-LB
IC1109
PST9119NR
TNPA1725
A44
TO DG-BOARD
To DG shield case
A5
TO LG-BOARD (LG1)
A21
IC2705
C0DACMG00001
DD 3.3V
IC2709
C0DACMG00001
IC7702
C1AB00000441
IC7703
AN6912S
IC501
C0BBBA000043
AN6914S
IC459
C0JBAM000065
TC74HC221AF
A17
TO D-BOARD (D2)
A3
TO D-BOARD (D3)
A2
TO D-BOARD (D2)
A1
TO D-BOARD (D1)
A6
TO D-BOARD (D6) convergence
Q1336
Q2534
Q9302
Q7701
Q7702
Q7703
Q7704
Q7705
Q7706
Q7707
Q7708
Q7709
Q7710
Q7711
Q7712
Q7713
Q7714
Q7715
Q7716
Q7717
Q7718
Q7719
Q7720
Q7721
Q7722
Q7723
Q7724
Q7725
Q463
Q464
Q465
Q460
Q461
Q462
Q2308
Q9301
18
19
20
21
22
23
24
25
26

⚠ A-BOARD TZTNP020GFV (4/4)


IC7121
C1AB00000454
IC7102
24LC64
EEPROM
IC7107
C1AB00001220
IC7103
C0JBAB000003
IC7101
AN78L05M
IC7104
C0FBBH000040
IC7110
C1AB00001394
IC7105
C0ABAA000053
IC7106
C0ABAA000053
IC7109
AN79L12M
IC7108
AN78L12M
Q7101
XN0150100L
Q7102
B1ABCC000004
2SD0601A0L
Q7103
MSB709
2SB0709A0L
D7101
MA3X157A0L
D7102
MA3X152E0L
D7103
MA3X152K0L
L7008
L7007
V-SYNC
H-SYNC
OSD IN
OSD OUT
3.3V
5V
+12V
16V
-12V
-16V
RH-OUT
RV-OUT
GV-OUT
GH-OUT
BH-OUT
BV-OUT
CENTER
TP17
TP18
TP19
A
B
C
D
E
F
G
H
I
J
K
26
27
28
29
30

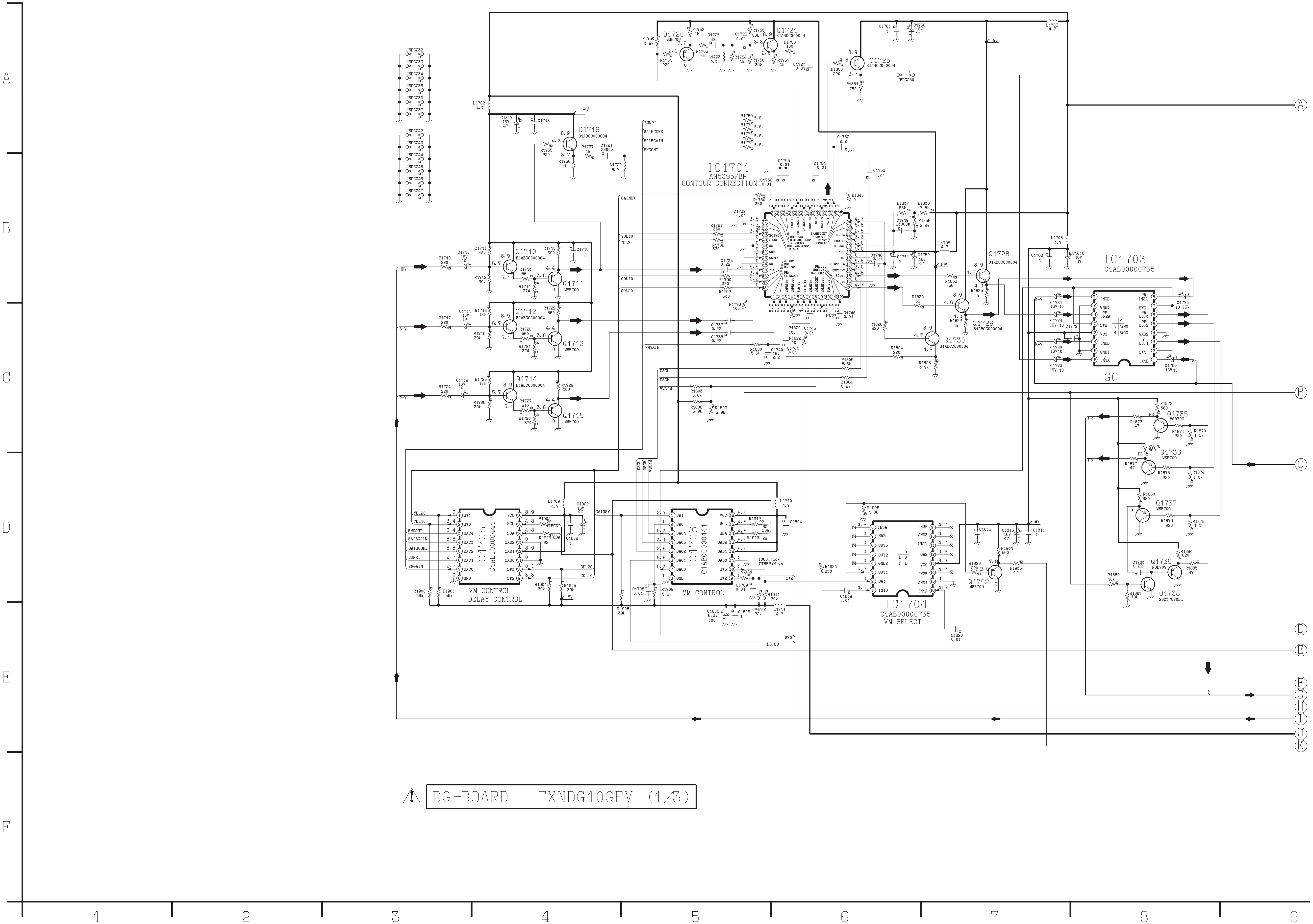


D-BOARD (1/2)
TZNP010GFV (TX-47P500HM/HQ)
TZNP010GHV (TX-47P500HZ)
TZNP010GJV (TX-47P500X)
LIVE CIRCUIT
HOT
COLD
TO A-BOARD (A1)
D1
STBY 6.5V
STBY 6.5V
RELAY
GND
12V
TO A-BOARD (A2)
D2
BEAM SW
PROTECT
DAF SW
15V
S-GND
SOUND 35V
BT 30V
NC
TO P-BOARD (P60)
D60
6.5V
GND
RELAY
18V
TP38
TP39
TP42
TP34
TP35
TP36
TP40
TP41
TP37
D2322
B0HANL000002
R845
0.27
D870
DAN212K
MA3X152K0L
Q854
B1ABCC000004
2SD0601A0L
BC847B
R871
3.3k
C876
0.022
R872
150k
PROTECTOR
JSD58
DAN212K
MA3X152K0L
D894
TO P-BOARD (P50)
D50
TX-47P500X
TX-P500HM/HQ/HZ
TPD6
TPD7
C812
470
250V
C820
250V470 :TX-47P500X
400V220 :TX-47P500HM/HQ/HZ
JSD4
JSD5
JSD7
C814
470
250V
C822
250V470 :TX-47P500X
400V220 :TX-47P500HM/HQ/HZ
T801
ETS42AE2X6AC
C860
470p
500V
TUC25644
D860
B0HANR000014
JSD10
35V
TP67
C861
50V
1000
L861
G0A470GA0017
C859
50V
2200
SOUND GND
BTL 30V
30V
R803
39k
R804
39k
C808
35V
220
D805
MAZ22400B0LS
IC801
C5HABZZ00014
15.7
Vin
START
O.V.P
REG
LATCH
DRIVE
DRV.REG ≈6.3V
T.S.D
O.S.C
Drain
Source
OCP/FB
GND
285
1.9
D819
B0HAGP000003
JSD27
D821
B0HAGP000003
C823
0.033
400V
JSD25
Q805
2SK2125000LB
TUC6E6811
346
C819
680p
500V
R821
68
R822
82
D816
MA2C165001VT
D815
MAZ42200MF
R836
1.5k
L815
EXCELSA39V
L816
EXCELSA39V
C815
2kV
680p
C813
2kV
680p
L818
EXCELSA35T
D820
B0HAGP000003
D811
MAZ20820A0LS
D809
MAZ20820A0LS
R837
1.5k
C829
680p
L814
T3A206027
R819
680
R820
5.6k
D813
JSD23
R810
0.12
R806
0.12
D807
B3PAA0000153
R832
390
IC808
C0EAS0000025
13.8
C816
470p
C817
470p
L851
EXCELSA35T
R815
8.2M
L822
EXCELDR35V
C842
330p
D829
B0HAPM000032
(ERC91-02L9)
L826
18V
TP64
C837
25V
2700
C840
25V
820
L414
47
R7080
0.39
L827
22
C839
150p
L820
EXCELSA24T
D828
B0HBRM000012
(FML12G)
-18V
C841
25V
2700
R7085
0.39
L828
22
C832
1000p
2kV
L857
EXCELSA35T
L830
EXCELSA35T
D831
B0HAPV000009
HEAT SINK
TUC6E6811
C833
160V
1000
+140V
TUC14767
15V
JSD55
TPD13
D851
B0HBSM000026
C862
25V
2200
C880
25V
4700
IC810
AN7812LB
TUC25644
15.1
11.8
C870
0.1
C872
25V
470
C873
0.1
R885
L862
100
R886
140V
C869
6.3V
330
R873
1.0k
R877
1.0k
Q849
2SA1961Q0AHW
139.0
138.9
R880
18k
R884
22k
D869
MA3X152K0L
DAN212K
R881
5.6k
R867
15k
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
9

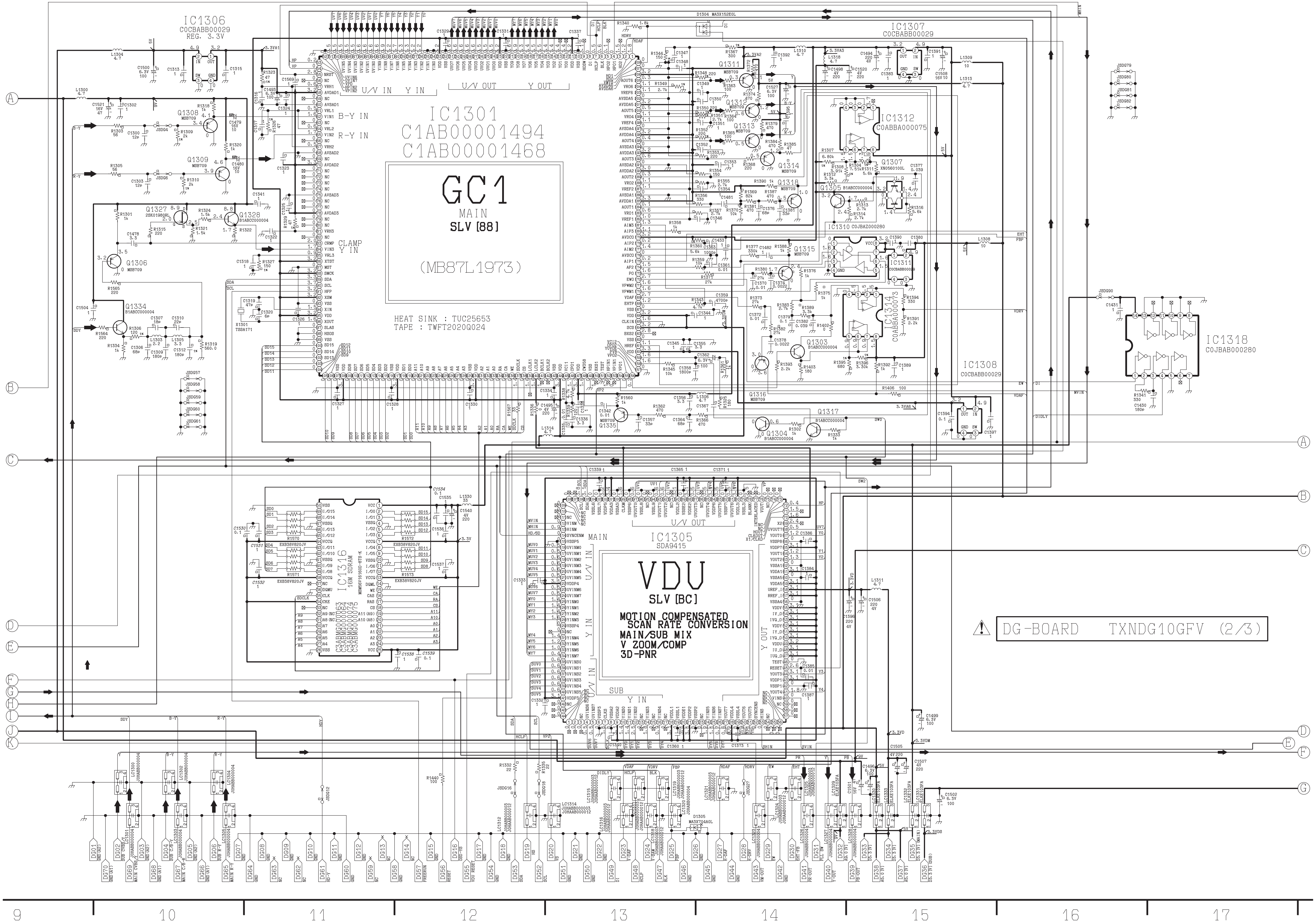


⚠ D-BOARD (2/2)
TZNP010GFV (TX-47P500HM/HQ)
TZNP010GHV (TX-47P500HZ)
TZNP010GJV (TX-47P500X)

TO A-BOARD (A6)
D6
TO A-BOARD (A3)
D3
TO P-BOARD (P40)
D40
BLUE GREEN RED
D13
D14
D15
CY-B
CY-G
CY-R
IC7002
C5AA00000108
IC7001
C5AA00000108
Q7001
B1ABCC000004
2SD0601A0L
BC847B
Q7002
B1ABCC000004
2SD0601A0L
BC847B
FOCUS PACK
D9ZZ00000075
TO LG-CRT SOCKET
TO LR-CRT SOCKET
TO LB-CRT SOCKET
TO LR5
TO LB5
TO LG13
D30
N.C
GND
DY-B
DY-G
DY-R
G0F100000004
D9
D10
D11
V_Low
V_Hi
H_Low
H_Hi
TO D13
TO D14
TO D15
TO A-BOARD (A17)
D12
TUC256751
IC451
C1AA00000529
Thermal Up
Pump Up
Q451
B1ABCC000004
2SD0601A0L
BC847B
DYNAMIC FOCUS
Q9602
B1BAAV000003
Q9601
MSB709
2SB0709A0L
BC857B
Q9603
B1ABCC000004
2SD0601A0L
BC847B
TO RED CRT ANODE
TO GREEN CRT ANODE
TO BLUE CRT ANODE
H.V. DISTRIBUTOR
⚠ KFT7CP336F
TO D8
HOUT
TXAUC160FDV
TUC8E6785
Q551
B1BAJW000002
Q556
2SK1365
Q555
2SK1608000LB
Q557
B1ABCC000004
2SD0601A0L
BC847B
D8
EHT F/B
Q553
2SC14730L
Q554
2SB14730L
T551 ⚠
KFT7AA334F1:TX-47P500HM/HQ/X
KFT7AA334F2:TX-47P500HZ
HEATER
ABL
D4
Q552
2SC1473
IC9601
AN6562S
C0ABBA000073
VCC
GND
EHT DET
PCC
TXAUC060FDV
Q701
2SK2538000LB
TUC25628
D70
TO P-BOARD (P70)
18V
H-DRIVE
H-OUT
D5
TO LG-BOARD (LG2)
TO SG-BOARD (SG1)
210V
HEATER
140V
A
B
C
D
E
F
G
H
I
J
K
9
10
11
12
13
14
15
16
17

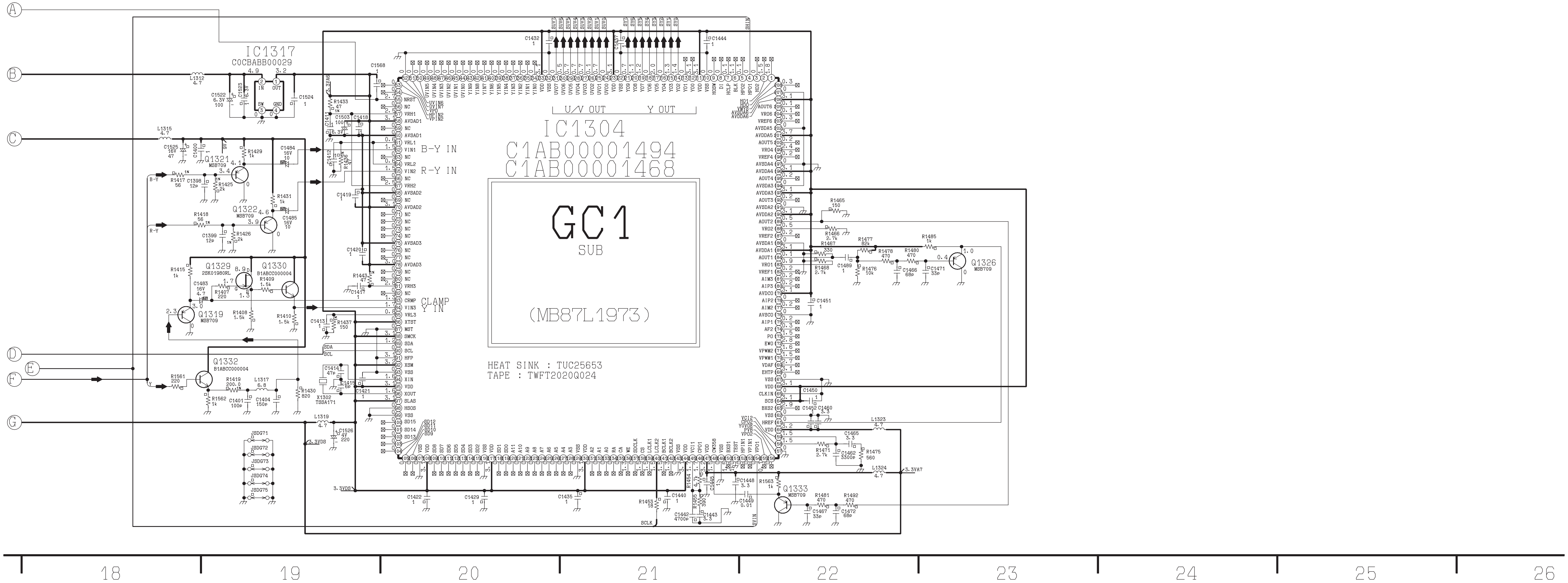

IC1701
AN5395FBP
CONTOUR CORRECTION
IC1703
C1AB00000735
GC
IC1704
C1AB00000735
VM SELECT
IC1705
C1AB00000441
VM CONTROL
DELAY CONTROL
IC1706
C1AB00000441
VM CONTROL
Q1710
Q1711
Q1712
Q1713
Q1714
Q1715
Q1716
Q1720
Q1721
Q1725
Q1728
Q1729
Q1730
Q1735
Q1736
Q1737
Q1738
Q1739
Q1752
HDY
B-Y
R-Y
PR
PB
Y
+9V
+5V
HD/SD
SW0
SW2
10801:Low
OTHER:High
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
9

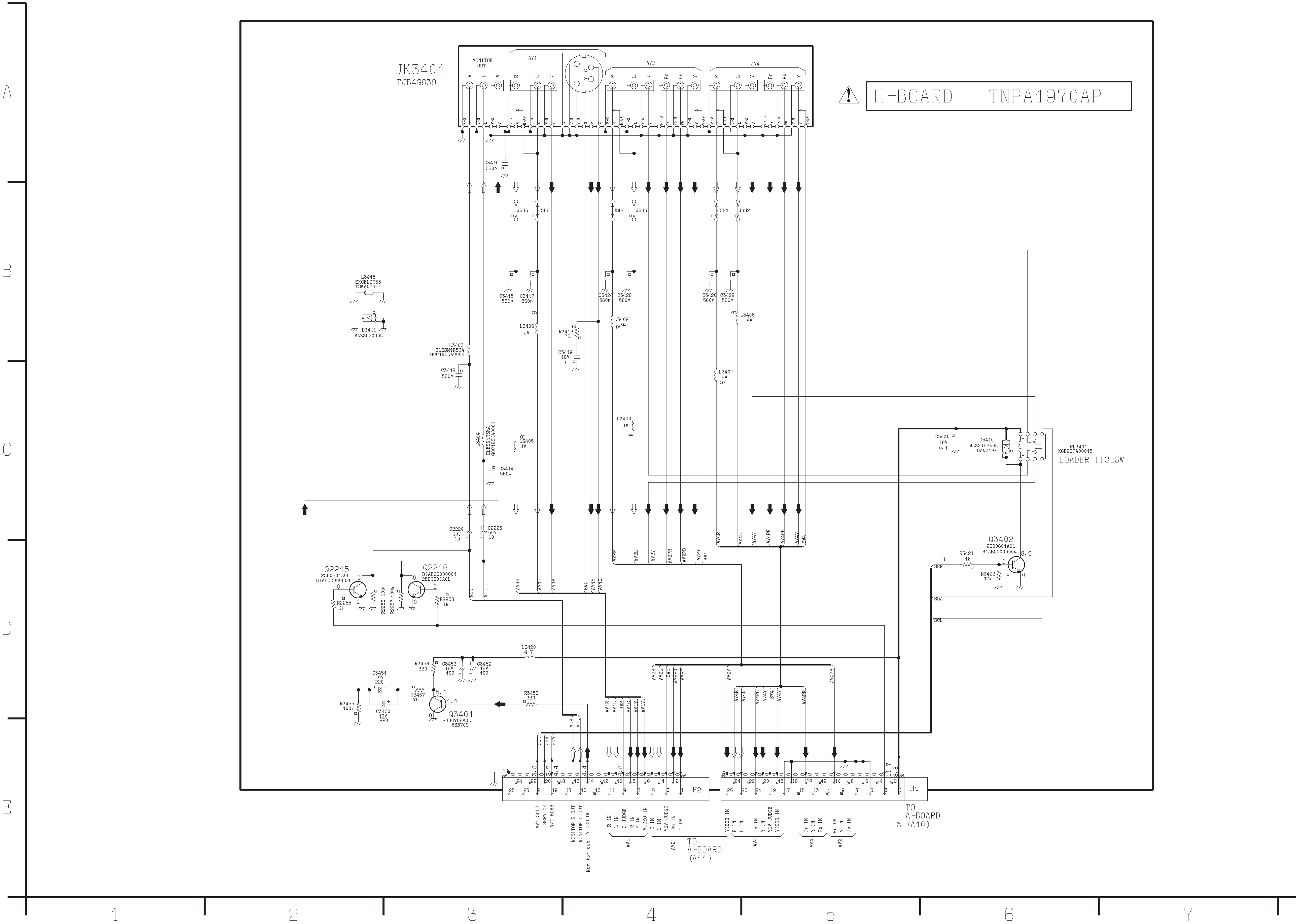
⚠ DG-BOARD TXNDG10GFV (1/3)

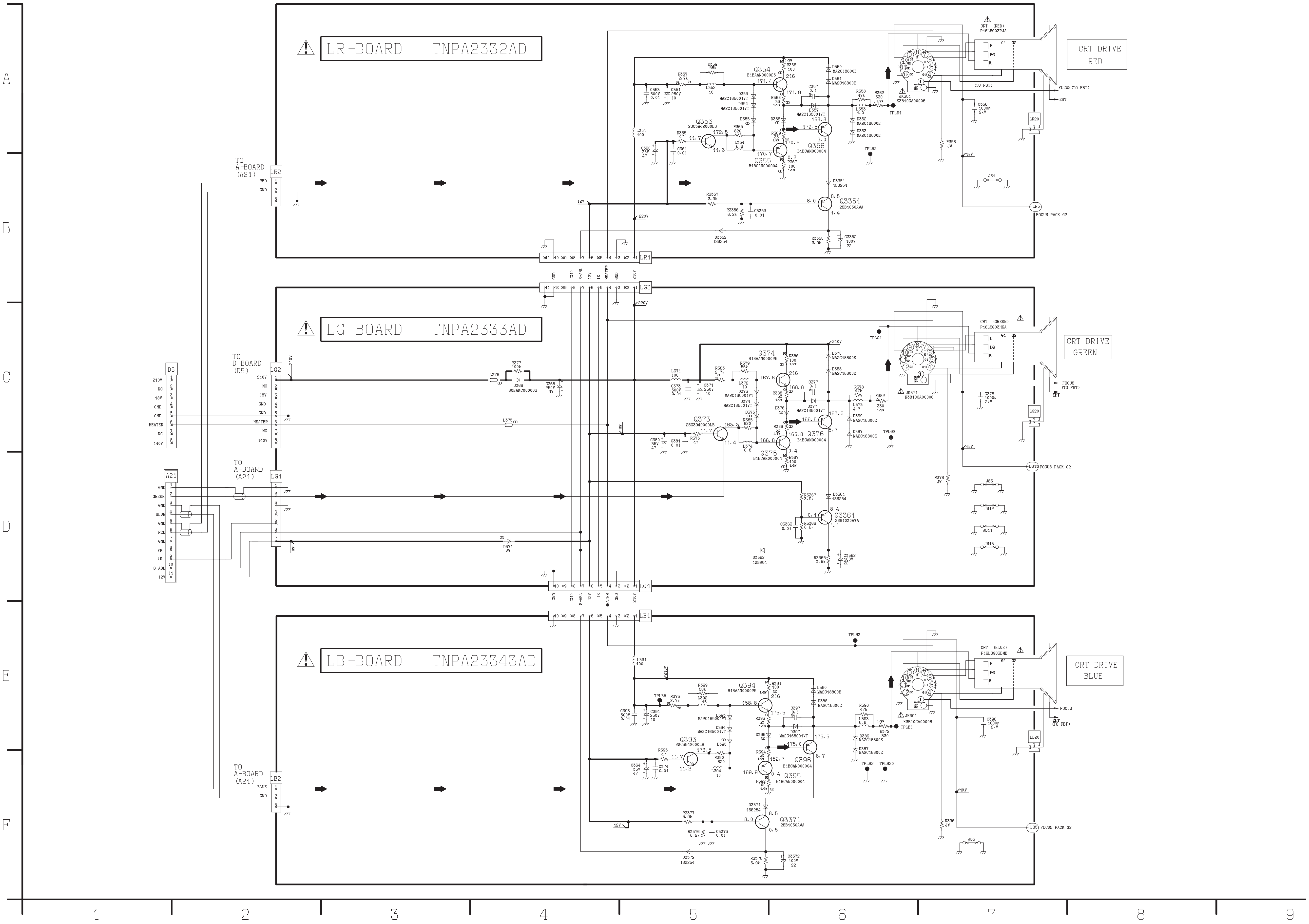

IC1306
C0CBABB00029
REG. 3.3V
IC1301
C1AB00001494
C1AB00001468
GC1
MAIN
SLV [88]
(MB87L1973)
HEAT SINK : TUC25653
TAPE : TWFT2020Q024
U/V IN
Y IN
U/V OUT
Y OUT
B-Y IN
R-Y IN
CLAMP
Y IN
Q1308
Q1309
Q1327
Q1328
Q1306
Q1334
IC1307
C0CBABB00029
IC1312
C0ABBA000075
IC1310 C0JBAZ000280
IC1311
IC1314
C0ABBA000073
IC1308
C0CBABB00029
IC1318
C0JBAB000280
Q1311
Q1312
Q1313
Q1314
Q1318
Q1305
Q1307
Q1315
Q1303
Q1316
Q1317
Q1304
Q1335
D1304 MA3X152E0L
IC1316
16M SDRAM
C3ABWG000063
C3ABWG000074
C3ABWG000075
IC1305
SDA9415
VDU
SLV [BC]
MOTION COMPENSATED
SCAN RATE CONVERSION
MAIN/SUB MIX
V ZOOM/COMP
3D-PNR
MAIN
SUB
U/V IN
Y IN
U/V OUT
Y OUT
D1305
MA3X704A0L
A
B
C
D
E
F
G
H
I
J
K
9
10
11
12
13
14
15
16
17

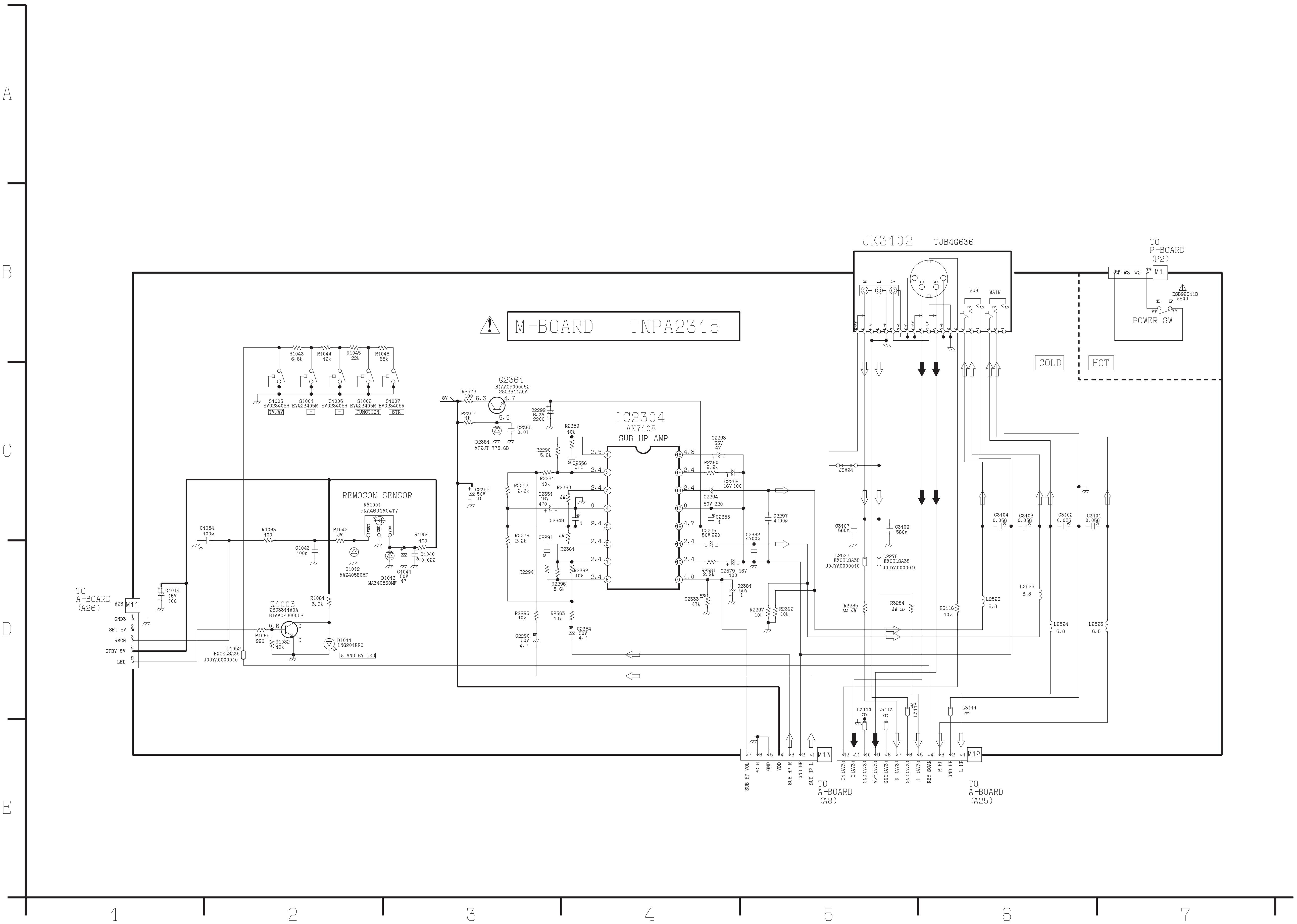
⚠ DG-BOARD TXNDG10GFV (2/3)

⚠ DG-BOARD TXNDG10GFV (3/3)

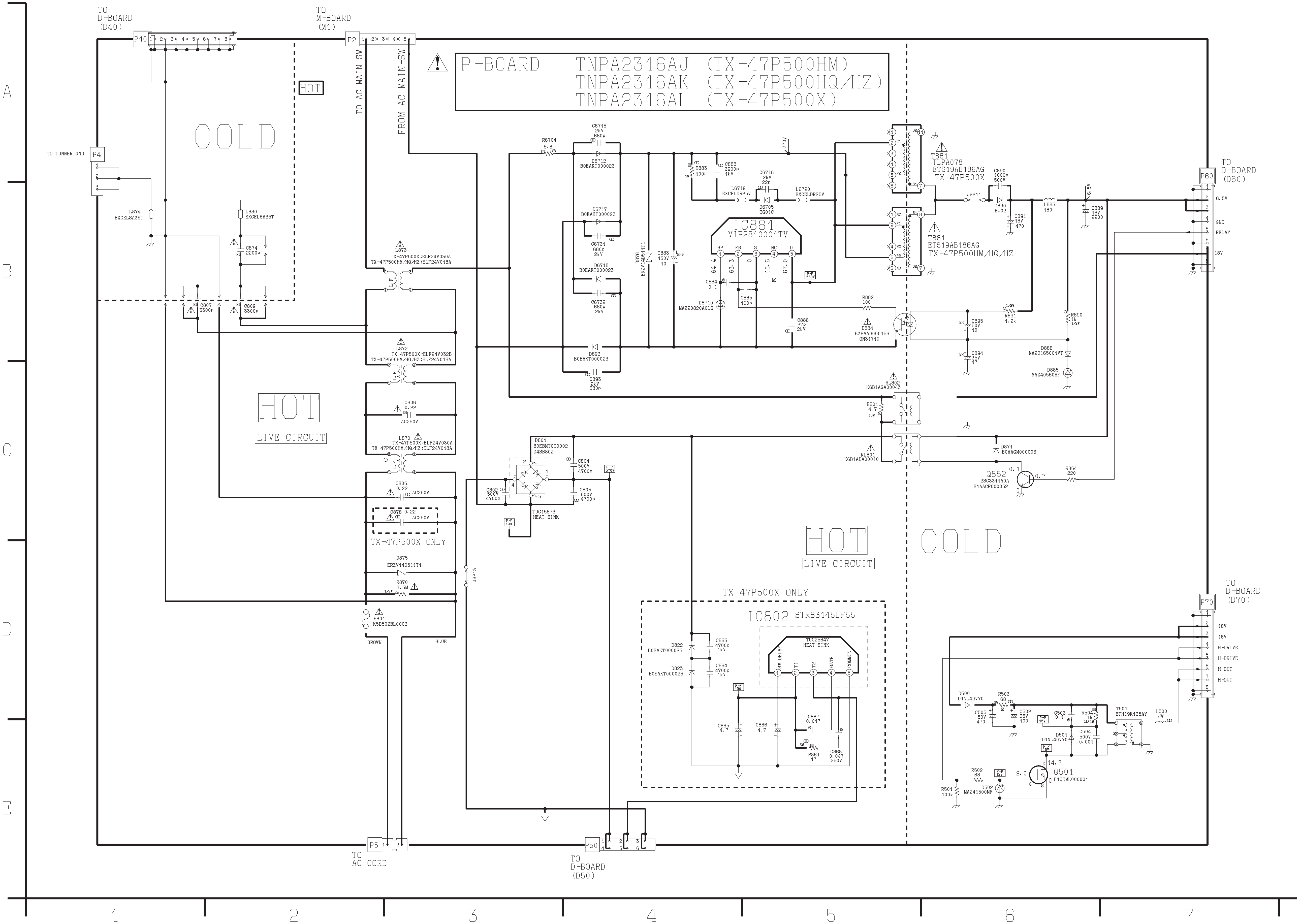

Ⓐ
Ⓑ
Ⓒ
Ⓓ
Ⓔ
Ⓕ
Ⓖ
IC1317
C0CBABB00029
L1312
L1315
IC1304
C1AB00001494
C1AB00001468
GC1
SUB
(MB87L1973)
HEAT SINK : TUC25653
TAPE : TWFT2020Q024
U/V OUT
Y OUT
B-Y IN
R-Y IN
CLAMP
Y IN
B-Y
R-Y
Q1321
MSB709
Q1322
MSB709
Q1329
2SK01980RL
Q1330
B1ABCC000004
Q1319
MSB709
Q1332
B1ABCC000004
Q1326
MSB709
Q1333
MSB709
X1302
TSSA171
L1317
L1319
L1323
L1324
JSDG71
JSDG72
JSDG73
JSDG74
JSDG75
3.3VDS
3.3VA7
SDA
SCL
SCLK
18
19
20
21
22
23
24
25
26

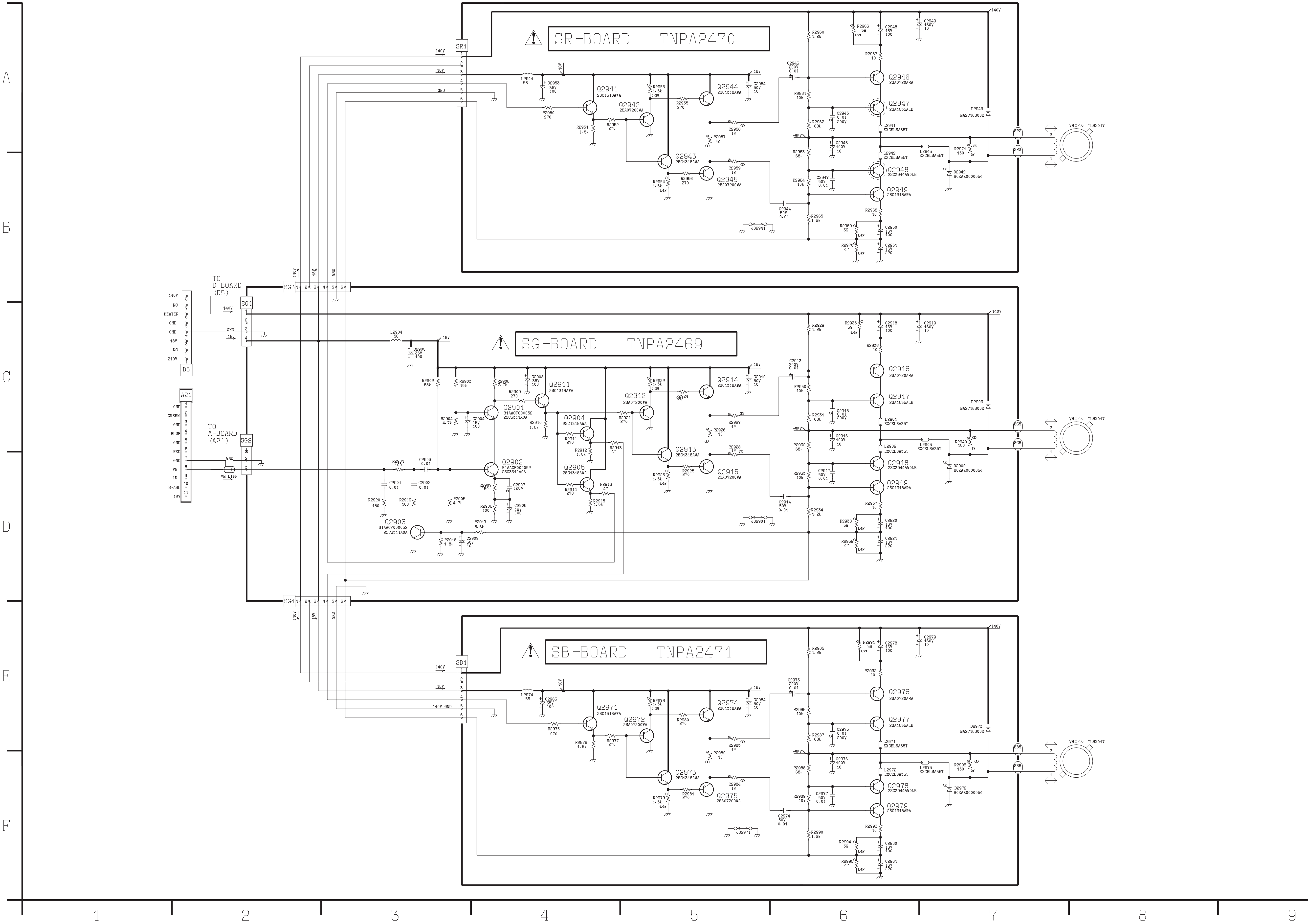

H-BOARD TNPA1970AP
JK3401
TJB4G639
MONITOR OUT
AV1
AV2
AV4
R
L
V
Pr
Pb
Y
C
C3410
560p
JSH5
JSH6
JSH4
JSH3
JSH1
JSH2
L3415
EXCELDR35
TSKA038-1
D3411
MAZ302000L
C3415
560p
C3417
560p
C3424
560p
C3426
560p
C3420
560p
C3422
560p
L3406
JW
R3412
75
C3419
16V
1
L3409
JW
L3408
JW
L3407
JW
L3403
ELESN1R5KA
G0C1R5KA0004
C3412
560p
L3404
ELESN1R5KA
G0C1R5KA0004
L3405
JW
L3410
JW
C3414
560p
C3430
16V
0.1
D3410
MA3X152K0L
DAN212K
RL3401
K6B2CFA00015
LOADER IIC_SW
C2224
50V
10
C2225
50V
10
Q2215
2SD0601A0L
B1ABCC000004
Q2216
B1ABCC000004
2SD0601A0L
R2255
1k
R2256 100k
R2257 100k
R2258
1k
MOR
MOL
AV1R
AV1L
AV1V
SW2
AV1Y
AV1C
AV2R
AV2L
AV2V
AV2PR
AV2PB
AV2Y
SW1
AV4R
AV4L
AV4V
AV4PR
AV4PB
AV4Y
SW4
Q3402
2SD0601A0L
B1ABCC000004
8.9
R3421
1k
R3422
47k
H
SER
SDA
SCL
L3420
4.7
R3458
330
C3453
16V
100
C3452
16V
100
C3451
10V
220
C3450
10V
220
R3455
100k
R3457
75
5.1
4.4
Q3401
2SB0709A0L
MSB709
R3456
330
H2
H1
3.8
3.7
4.4
4.8
11.7
8.8
AV1 SCL3
SERVICE
AV1 SDA3
MONITOR R OUT
MONITOR L OUT
VIDEO OUT
Monitor out
R IN
L IN
S-JUDGE
C IN
Y IN
VIDEO IN
R IN
L IN
YUV JUDGE
Pb IN
Y IN
VIDEO IN
R IN
L IN
Pb IN
Y IN
YUV JUDGE
VIDEO IN
Pr IN
Y IN
Pb IN
Pr IN
Y IN
Pb IN
AV1
AV2
AV4
AV4
AV2
TO
A-BOARD
(A11)
9V
TO
A-BOARD
(A10)
A
B
C
D
E
1
2
3
4
5
6
7


LR-BOARD TNPA2332AD
LG-BOARD TNPA2333AD
LB-BOARD TNPA23343AD
CRT DRIVE RED
CRT DRIVE GREEN
CRT DRIVE BLUE
TO A-BOARD (A21)
TO D-BOARD (D5)
LR1
LR2
LR5
LR20
LG1
LG2
LG3
LG4
LG13
LG20
LB1
LB2
LB5
LB20
A21
D5
Q353
Q354
Q355
Q356
Q3351
Q373
Q374
Q375
Q376
Q3361
Q393
Q394
Q395
Q396
Q3371
CRT (RED) P16LBG03RJA
CRT (GREEN) P16LBG03HKA
CRT (BLUE) P16LBG03BMB
FOCUS (TO FBT)
EHT
FOCUS PACK G2
GND
(G1)
S-ABL
12V
IK
HEATER
210V
220V
RED
GREEN
BLUE
VM
NC
18V
140V
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

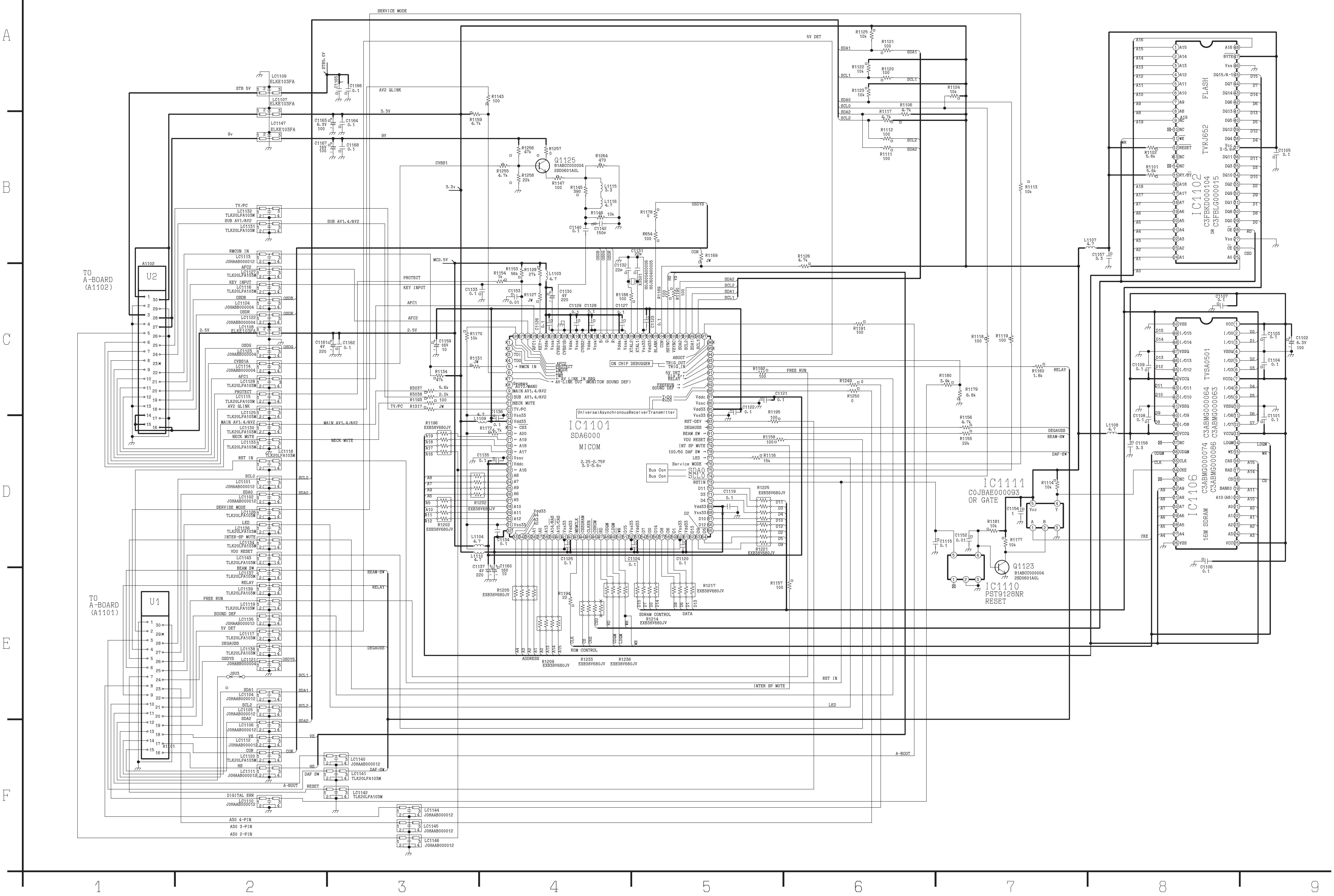


M-BOARD TNPA2315
JK3102
TJB4G636
TO P-BOARD (P2)
M1
ESB92S11B S840
POWER SW
COLD
HOT
SUB
MAIN
IC2304
AN7108
SUB HP AMP
Q2361
B1AACF000052
2SC3311A0A
D2361
MTZJT-775.6B
REMOCON SENSOR
RM1001
PNA4601M04TV
Q1003
2SC3311A0A
B1AACF000052
D1011
LNG201RFC
STAND BY LED
D1012
MAZ40560MF
D1013
MAZ40560MF
S1003 EVQ23405R TV/AV
S1004 EVQ23405R +
S1005 EVQ23405R −
S1006 EVQ23405R FUNCTION
S1007 EVQ23405R STR
R1043 6.8k
R1044 12k
R1045 22k
R1046 68k
TO A-BOARD (A26)
M11
GND3
SET 5V
RMCN
STBY 5V
LED
L1052 EXCELSA35 J0JYA0000010
L2527 EXCELSA35 J0JYA0000010
L2278 EXCELSA35 J0JYA0000010
JSM24
SUB HP VOL
PC G
GND
VDD
SUB HP R
GND HP
SUB HP L
M13
TO A-BOARD (A8)
S1 (AV3)
C (AV3)
GND (AV3)
V/Y (AV3)
GND (AV3)
R (AV3)
GND (AV3)
L (AV3)
KEY SCAN
R HP
GND HP
L HP
M12
TO A-BOARD (A25)
A
B
C
D
E
1
2
3
4
5
6
7

P-BOARD TNPA2316AJ (TX-47P500HM)
TNPA2316AK (TX-47P500HQ/HZ)
TNPA2316AL (TX-47P500X)
TO D-BOARD (D40)
P40
TO M-BOARD (M1)
P2
TO AC MAIN-SW
FROM AC MAIN-SW
HOT
COLD
TO TUNNER GND
P4
L874 EXCELSA35T
L880 EXCELSA35T
C874 2200p
C807 3300p
C809 3300p
L873 TX-47P500X:ELF24V030A TX-47P500HM/HQ/HZ:ELF24V018A
L872 TX-47P500X:ELF24V032B TX-47P500HM/HQ/HZ:ELF24V019A
HOT
LIVE CIRCUIT
C806 0.22 AC250V
L870 TX-47P500X:ELF24V030A TX-47P500HM/HQ/HZ:ELF24V018A
C805 0.22 AC250V
C878 0.22 AC250V
TX-47P500X ONLY
D875 ERZV14D511T1
R870 3.3M 1/2W
F801 K5D502BL0003
BROWN
BLUE
TO AC CORD
P5
JSP13
D801 B0EBNT000002 D4SB80Z
C804 500V 4700p
C802 500V 4700p
C803 500V 4700p
TUC15673 HEAT SINK
R6704 5.6
C6715 2kV 680p
D6712 B0EAKT000023
D6717 B0EAKT000023
C6731 680p 2kV
D6718 B0EAKT000023
C6732 680p 2kV
D893 B0EAKT000023
C893 2kV 680p
D876 ERZV14D511T1
C883 450V 10
R883 100k
C888 3900p 1kV
C6718 2kV 22p
L6719 EXCELDR25V
D6705 EG01C
L6720 EXCELDR25V
370V
IC881 MIP2810001TV
BP FB S NC D
64.4 63.3 0 18.6 67.0
C884 0.1
C885 100p
D6710 MAZ20820A0LS
C886 27p 2kV
R882 100
D884 B3PAA0000153 ON3171R
T881 TLPA078 ETS19AB186AG TX-47P500X
T881 ETS19AB186AG TX-47P500HM/HQ/HZ
C890 1000p 500V
JSP11
D890 EU02
C891 16V 470
L883 180
6.5V
C889 16V 2200
TO D-BOARD (D60)
P60
6.5V
GND
RELAY
18V
R891 1.2k
C895 50V 10
C894 35V 47
R890 1k 1/2W
D886 MA2C165001VT
D885 MAZ40560HF
RL802 K6B1AGA00043
R801 4.7 10W
RL801 K6B1ADA00010
D871 B0AAGM000006
Q852 2SC3311A0A B1AACF000052
0.1 0.7 0
R854 220
HOT
LIVE CIRCUIT
COLD
TX-47P500X ONLY
IC802 STR83145LF55
TUC25647 HEAT SINK
SW DELAY T1 T2 GATE COMMON
D822 B0EAKT000023
D823 B0EAKT000023
C863 4700p 1kV
C864 4700p 1kV
C865 4.7
C866 4.7
C867 0.047
R861 47
C868 0.047 250V
TO D-BOARD (D50)
P50
TO D-BOARD (D70)
P70
18V
18V
H-DRIVE
H-DRIVE
H-OUT
H-OUT
D500 D1NL40V70
R503 68
C505 50V 470
C502 35V 100
C503 0.1
R504 1k
D501 D1NL40V70
C504 500V 0.001
T501 ETH19K135AY
L500 JW
R502 68
R501 100k
D502 MAZ41500MF
Q501 B1CEML000001
2.0 14.7 0
A B C D E
1 2 3 4 5 6 7


SR-BOARD TNPA2470
SG-BOARD TNPA2469
SB-BOARD TNPA2471
TO D-BOARD (D5)
TO A-BOARD (A21)
SR1
SG1
SG2
SG3
SG4
SB1
D5
A21
140V
18V
GND
140V GND
+65V
NC
HEATER
210V
GREEN
BLUE
RED
VM
IK
S-ABL
12V
VM DIFF
Q2941 2SC1318AWA
Q2942 2SA0720OWA
Q2943 2SC1318AWA
Q2944 2SC1318AWA
Q2945 2SA0720OWA
Q2946 2SA0720ARA
Q2947 2SA1535ALB
Q2948 2SC3944AW0LB
Q2949 2SC1318ARA
Q2901 B1AACF000052 2SC3311A0A
Q2902 B1AACF000052 2SC3311A0A
Q2903 B1AACF000052 2SC3311A0A
Q2904 2SC1318AWA
Q2905 2SC1318AWA
Q2911 2SC1318AWA
Q2912 2SA0720OWA
Q2913 2SC1318AWA
Q2914 2SC1318AWA
Q2915 2SA0720OWA
Q2916 2SA0720ARA
Q2917 2SA1535ALB
Q2918 2SC3944AW0LB
Q2919 2SC1318ARA
Q2971 2SC1318AWA
Q2972 2SA0720OWA
Q2973 2SC1318AWA
Q2974 2SC1318AWA
Q2975 2SA0720OWA
Q2976 2SA0720ARA
Q2977 2SA1535ALB
Q2978 2SC3944AW0LB
Q2979 2SC1318ARA
D2943 MA2C16800E
D2942 B0ZAZ0000054
D2903 MA2C16800E
D2902 B0ZAZ0000054
D2973 MA2C16800E
D2972 B0ZAZ0000054
L2941 EXCELSA35T
L2942 EXCELSA35T
L2943 EXCELSA35T
L2901 EXCELSA35T
L2902 EXCELSA35T
L2903 EXCELSA35T
L2971 EXCELSA35T
L2972 EXCELSA35T
L2973 EXCELSA35T
L2944 56
L2904 56
L2974 56
JS2941
JS2901
JS2971
SR2
SR3
SG5
SG6
SB5
SB6
VMコイル TLHX017
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

U-BOARD TXN/U10GFV


IC1101
SDA6000
MICOM
IC1102
TVRJ652
C3FBKD000104
C3FBLG000015
FLASH
IC1106
16M SDRAM
C3ABMG000074
C3ABMG000096
C3ABMG000063
TVSA0501
IC1111
C0JBAE000093
OR GATE
IC1110
PST9128NR
RESET
Q1125
B1ABCC000004
2SD0601A0L
Q1123
TO A-BOARD (A1102)
TO A-BOARD (A1101)
U1
U2
ON CHIP DEBUGGER
UniversalAsynchronousReceiverTransmitter
SERVICE MODE
STB 5V
3.3V
9V
5V DET
2.5V
AV2 GLINK
CVBS1
SUB AV1.4/AV2
MAIN AV1.4/AV2
NECK MUTE
PROTECT
KEY INPUT
AFC1
AFC2
OSDB
OSDR
OSDG
OSDYS
COR
MC2.5V
SDA0
SCL0
SDA1
SCL1
SDA2
SCL2
BEAM SW
RELAY
DEGAUSS
FREE RUN
DAF SW
RST IN
INTER SP MUTE
LED
A-BOOT
A-BOUT
RESET
DIGITAL ERR
A30 4-PIN
A30 3-PIN
A30 2-PIN
ADDRESS
ROM CONTROL
SDRAM CONTROL
DATA
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

14 Schematic Diagram

14.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

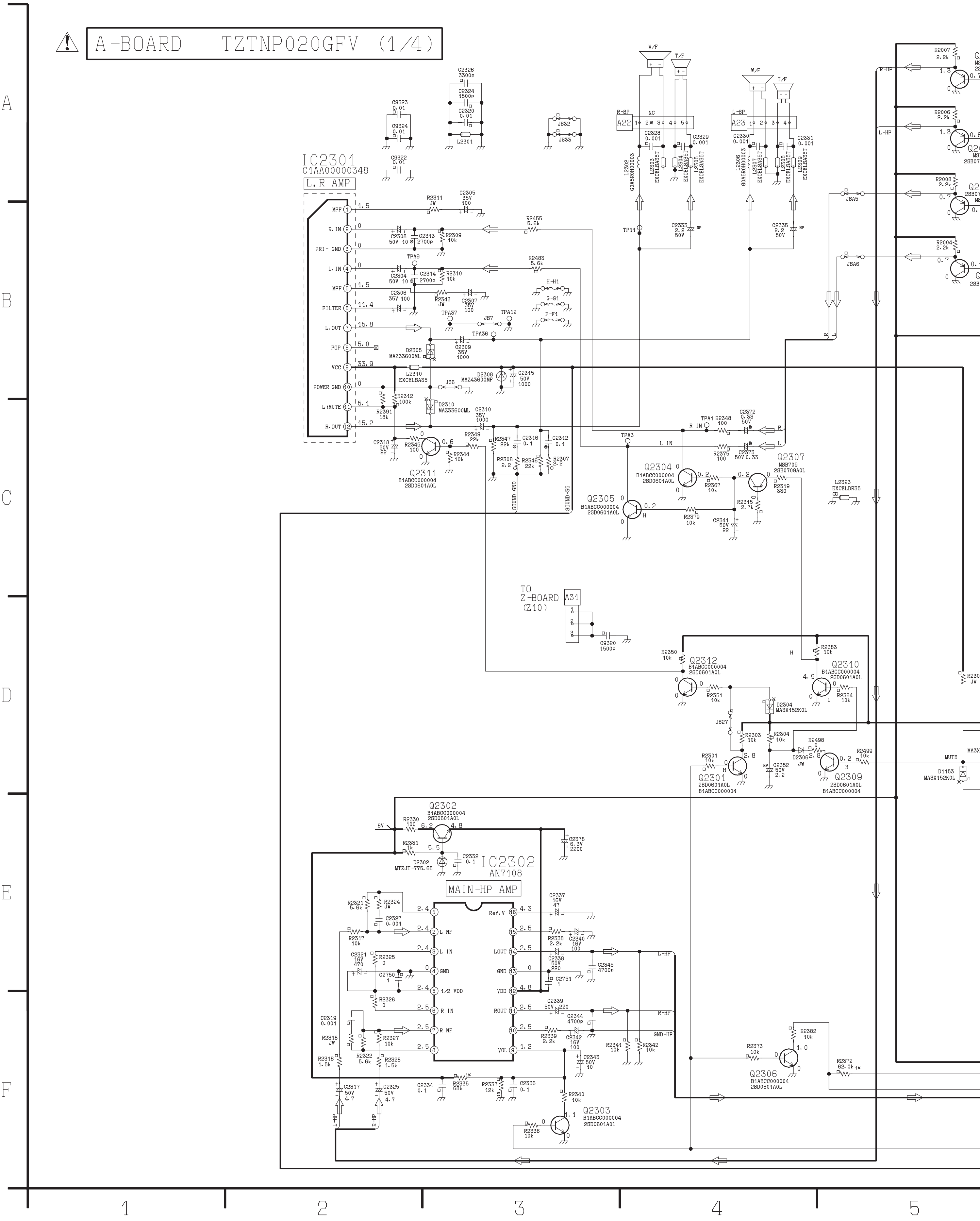
Notes:

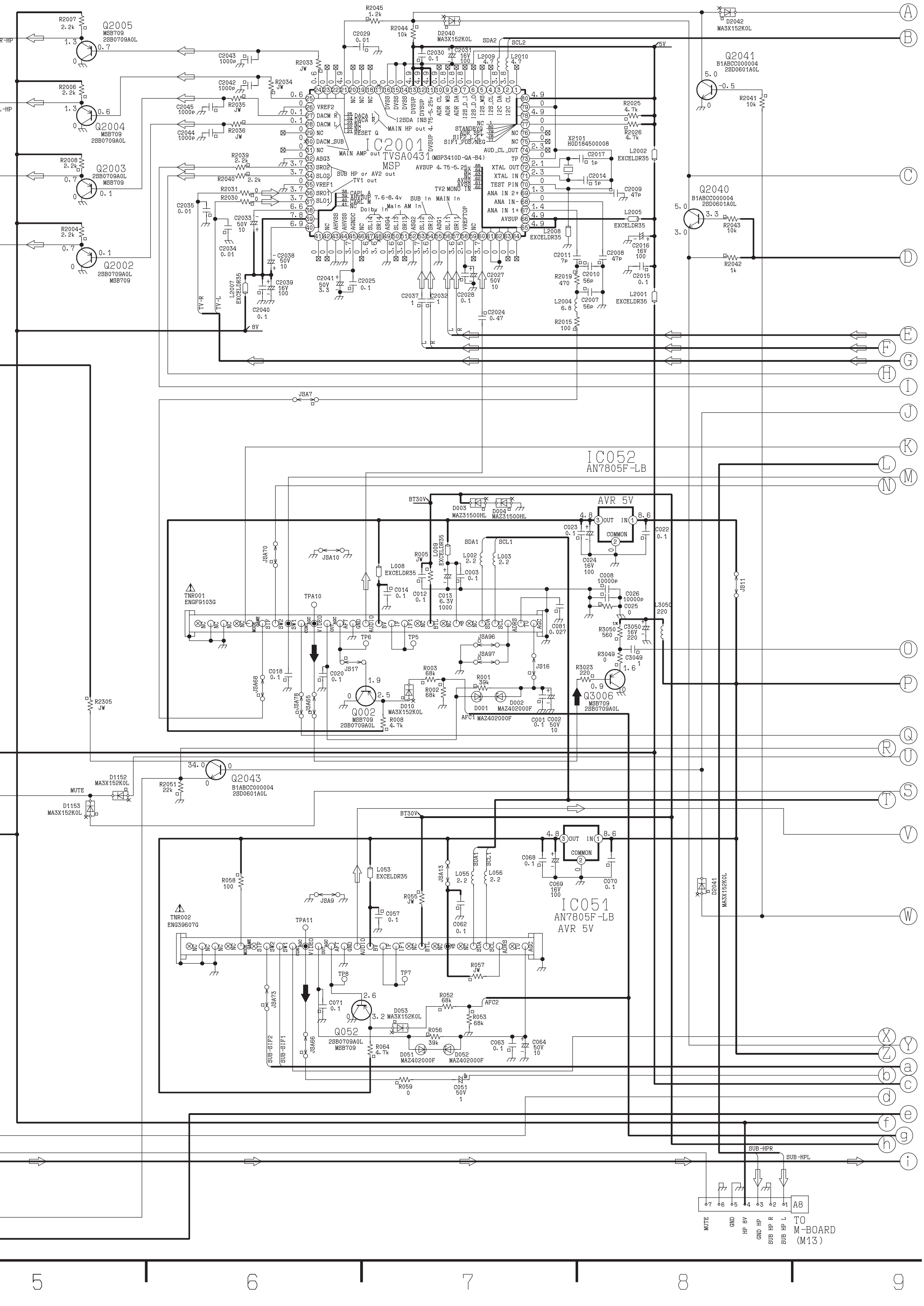
1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
   ○ : Nonflammable
   △ : Solid
   ◪ : Wire Wound
   ☒ : Metal Oxide
   ◎ : Metal Film
   ⊗ : Fuse**:**
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   ⊗ : Temperature Compensation
   Ⓜ : Polyester
   ⓜ : Metalized Polyester
   ☒ : Polypropylene
   +⊣⊢ : Electrolytic
   NP⊣⊢ : Bipolar
   Ⓣ : Dipped Tantalum
   ⓩ : Z-Type
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold)
   ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source ....
   TX-43/51P250HM/HQ/HZ,TC-51P250H : AC 220V-240V, 50/60Hz
   TX-43/51P250X : AC 110V-240V, 50/60Hz
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

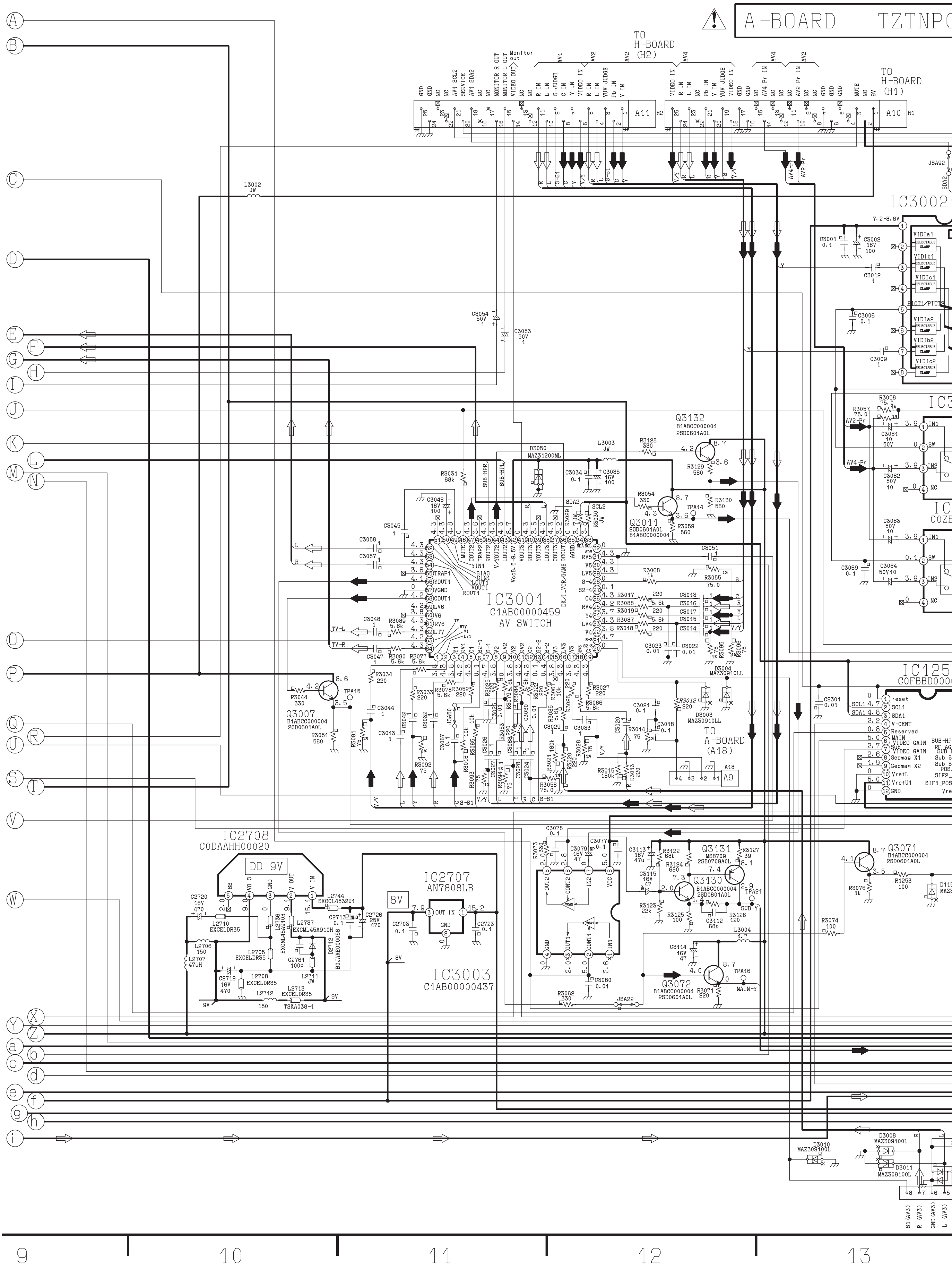
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

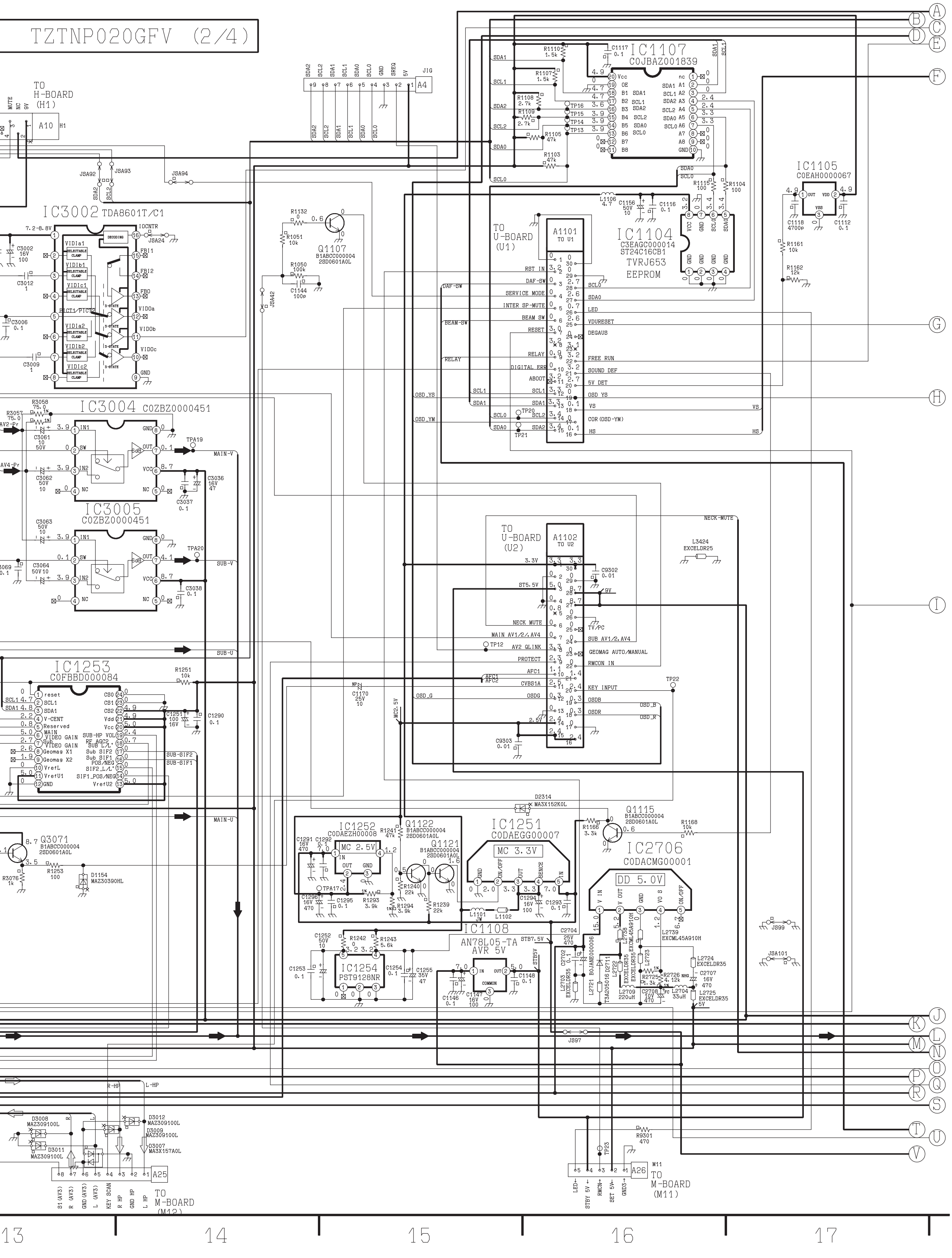
14.2. A-Board (1 of 4) Schematic Diagram


A-BOARD TZTNP020GFV (1/4)
IC2301
C1AA00000348
L,R AMP
MPF
R.IN
PRI-GND
L.IN
MPF
FILTER
L.OUT
POP
VCC
POWER GND
L:MUTE
R.OUT
IC2302
AN7108
MAIN-HP AMP
Q2301
Q2302
Q2303
Q2304
Q2305
Q2306
Q2307
Q2309
Q2310
Q2311
Q2312
TO
Z-BOARD
(Z10)
A31
A22
A23
R-SP
L-SP
W/F
T/F
R-HP
L-HP
GND-HP
MUTE
SOUND-GND
SOUND-35
A
B
C
D
E
F
1
2
3
4
5

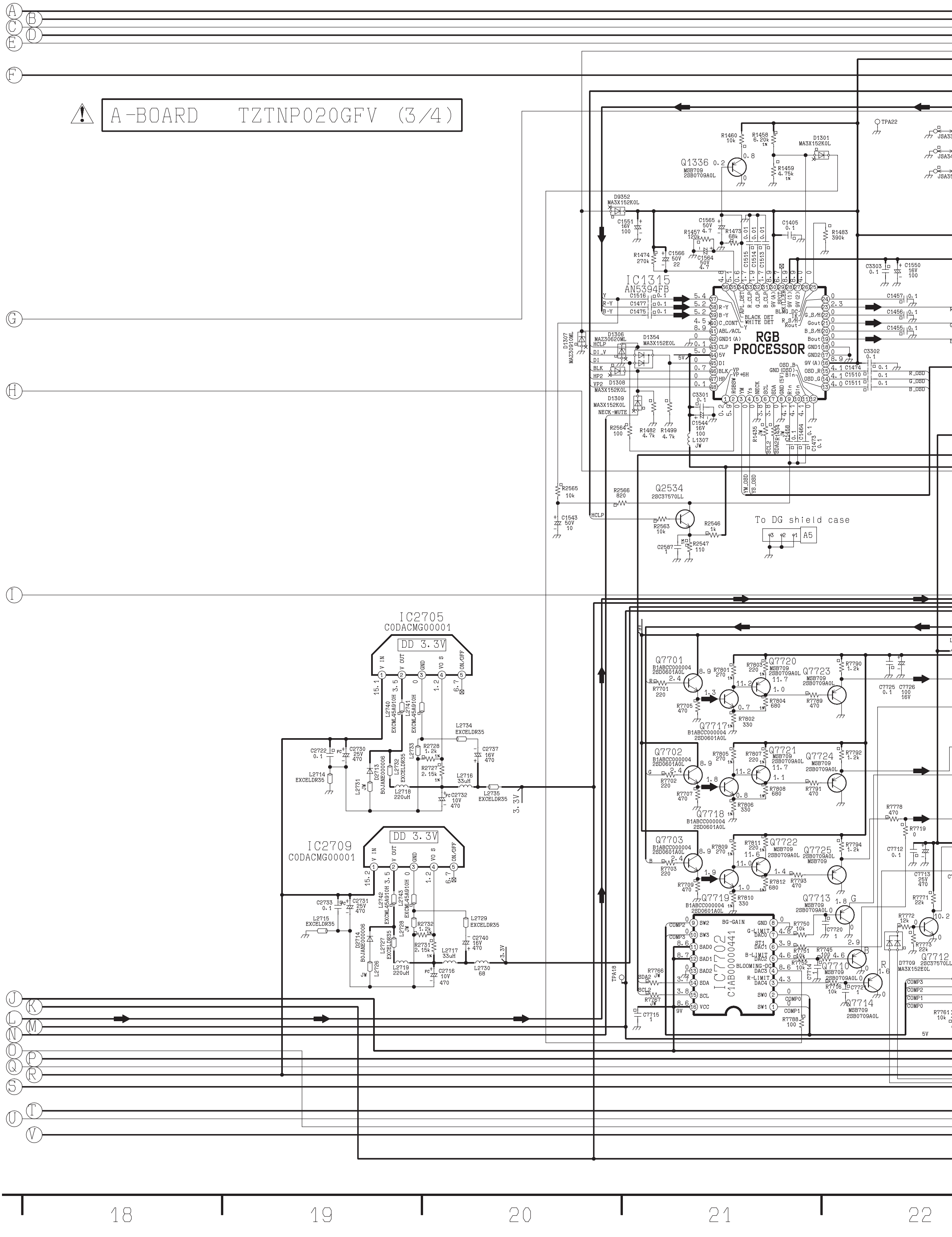

IC2001
TVSA0431 (MSP3410D-QA-B4)
MSP
IC052
AN7805F-LB
AVR 5V
IC051
AN7805F-LB
AVR 5V
Q2005 MSB709 2SB0709A0L
Q2004 MSB709 2SB0709A0L
Q2003 2SB0709A0L MSB709
Q2002 2SB0709A0L MSB709
Q2041 B1ABCC000004 2SD0601A0L
Q2040 B1ABCC000004 2SD0601A0L
Q2043 B1ABCC000004 2SD0601A0L
Q3006 MSB709 2SB0709A0L
Q002 MSB709 2SB0709A0L
Q052 2SB0709A0L MSB709
TNR001 ENGF9103G
TNR002 ENG39607G
D2040 MA3X152K0L
D2042 MA3X152K0L
D2041 MA3X152K0L
D1152 MA3X152K0L
D1153 MA3X152K0L
D003 MAZ31500HL
D004 MAZ31500HL
D010 MA3X152K0L
D053 MA3X152K0L
D001 MAZ402000F
D002 MAZ402000F
D051 MAZ402000F
D052 MAZ402000F
X2101 H0D184500008
MAIN AMP out
SUB HP or AV2 out
TV1 out
MAIN HP out
I2SDA IN
SUB In
MAIN In
Main AM In
TV2 MONO IN
Dolby In
TV-R
TV-L
SDA2
SCL2
SDA1
SCL1
5V
8V
BT30V
MUTE
AFC1
AFC2
SUB-SIF1
SUB-SIF2
SUB-HPR
SUB-HPL
A8
MUTE
GND
HP 8V
GND HP
SUB HP R
SUB HP L
TO M-BOARD (M13)
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
U
S
T
V
W
X
Y
Z
a
b
c
d
e
f
g
h
i
5
6
7
8
9

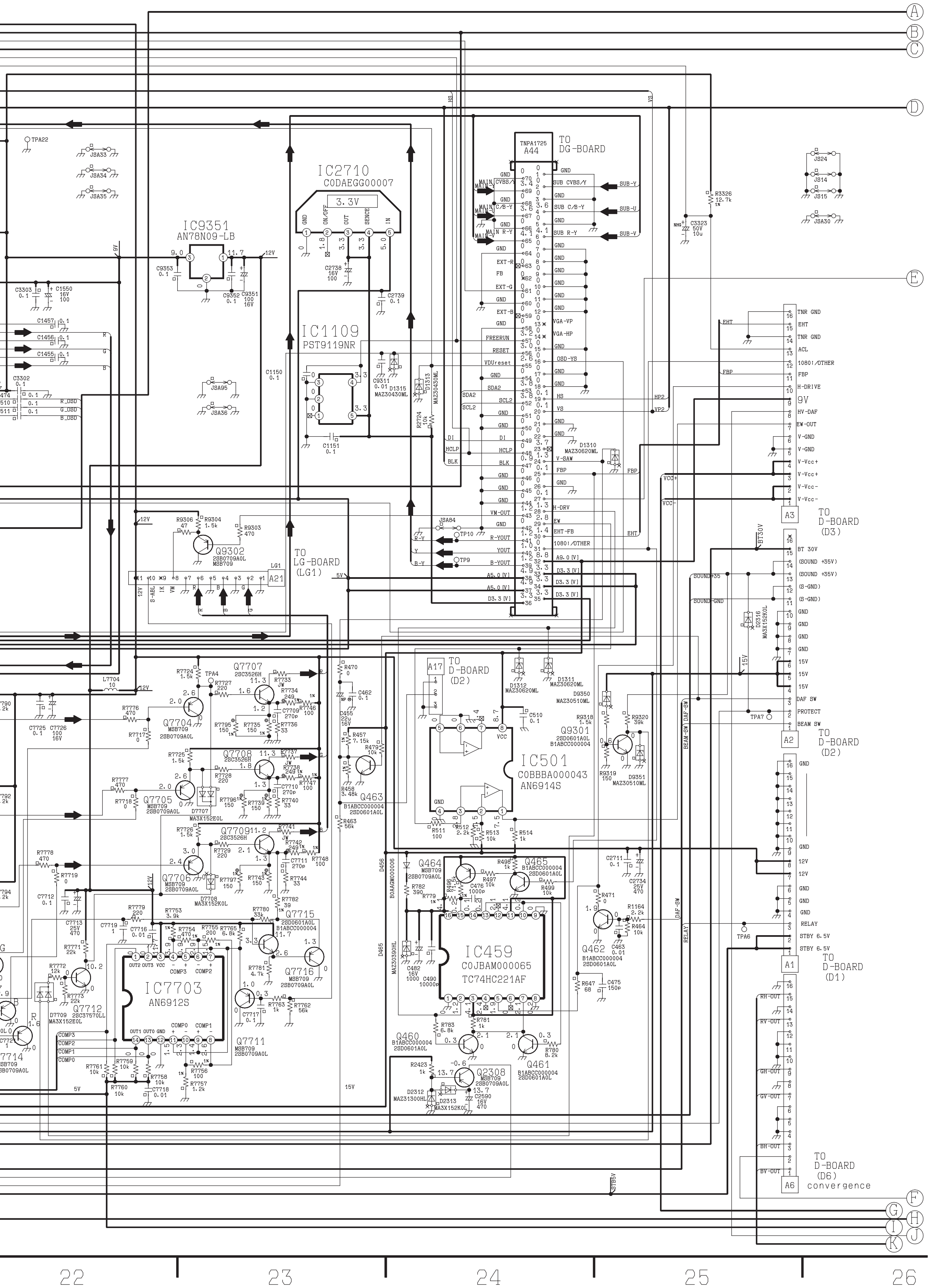
14.3. A-Board (2 of 4) Schematic Diagram


A-BOARD TZTNPC
TO H-BOARD (H2)
TO H-BOARD (H1)
A11
A10
IC3002
IC3001
C1AB00000459
AV SWITCH
IC2708
C0DAAHH00020
DD 9V
IC2707
AN7808LB
8V
IC3003
C1AB00000437
IC125
C0FBBD000
Q3132
Q3011
Q3007
Q3131
Q3130
Q3072
Q3071
D3050
MAZ31200ML
D3004
MAZ30910LL
D3003
MAZ30910LL
D3008
MAZ30910OL
D3010
MAZ30910OL
D3011
MAZ30910OL
L3002
L3003
L3004
TO A-BOARD (A18)
A9
JSA92
JSA22
TPA14
TPA15
TPA16
TPA21
SUB-Y
MAIN-Y
TV-L
TV-R
AV2-Pr
AV4-Pr
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z
a
b
c
d
e
f
g
h
i
9
10
11
12
13
S1 (AV3)
R (AV3)
GND (AV3)
L (AV3)

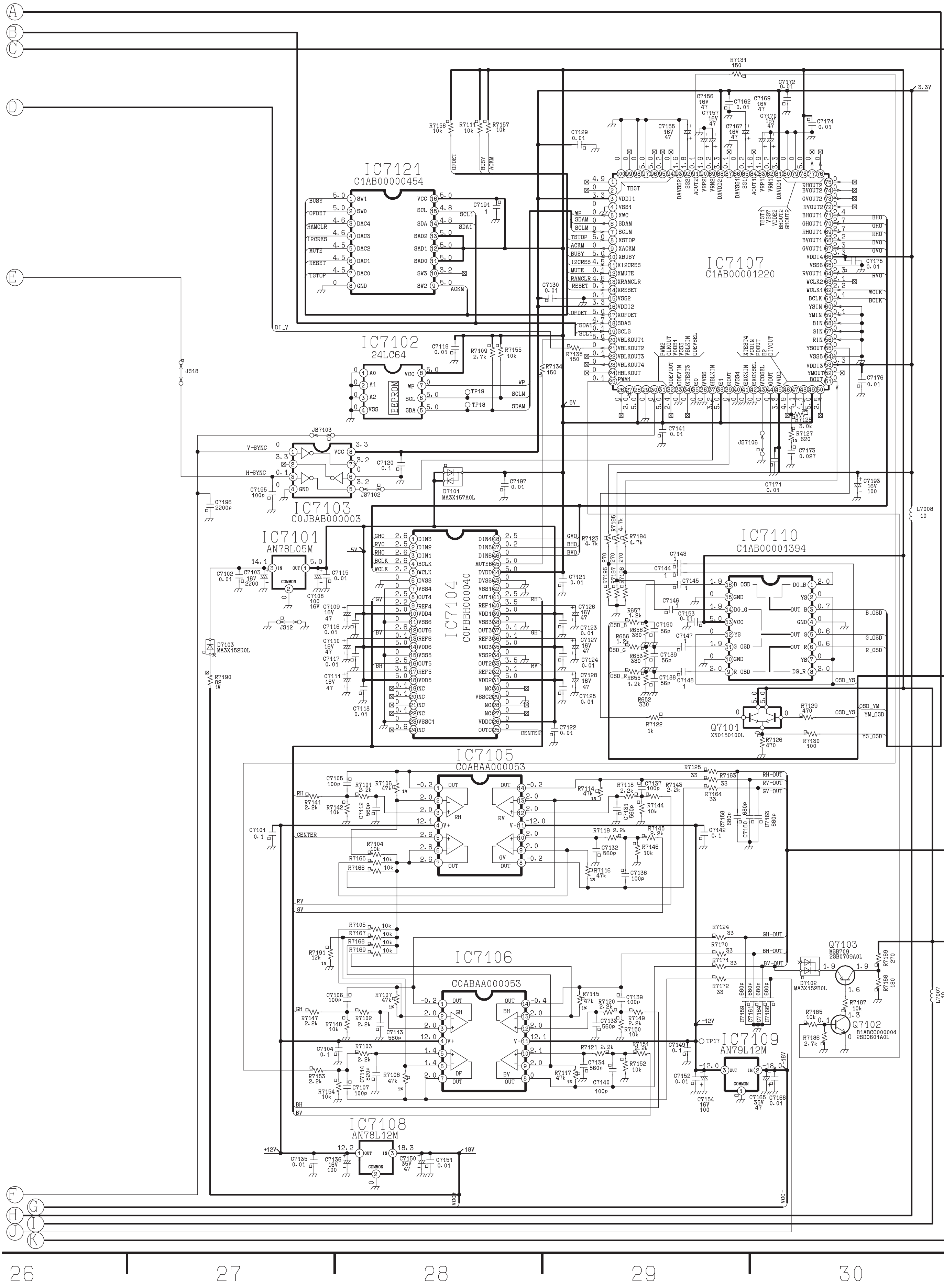

TZTNP020GFV (2/4)
TO H-BOARD (H1)
A10
A4
J16
TO U-BOARD (U1)
A1101
TO U-BOARD (U2)
A1102
IC3002 TDA8601T/C1
IC3004 C0ZBZ0000451
IC3005 C0ZBZ0000451
IC1253 C0FBBD000084
IC1107 C0JBAZ001839
IC1104 C3EAGC000014 ST24C16CB1 TVRJ653 EEPROM
IC1105 C0EAH0000067
Q1107 B1ABCC000004 2SD0601A0L
IC1252 C0DAEZH00008 MC 2.5V
Q1122 B1ABCC000004 2SD0601A0L
Q1121 B1ABCC000004 2SD0601A0L
IC1251 C0DAEGG00007 MC 3.3V
Q1115 B1ABCC000004 2SD0601A0L
IC2706 C0DACMG00001 DD 5.0V
IC1254 PST9128NR
IC1108 AN78L05-TA AVR 5V
Q3071 B1ABCC000004 2SD0601A0L
D1154 MAZ30390HL
D2314 MA3X152K0L
TO M-BOARD (M12)
A25
TO M-BOARD (M11)
A26
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
13
14
15
16
17

14.4. A-Board (3 of 4) Schematic Diagram


A-BOARD TZTNP020GFV (3/4)
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
IC1315
AN5394FB
RGB PROCESSOR
Q1336
Q2534
2SC37570LL
To DG shield case
A5
TPA22
TPA18
IC2705
C0DACMG00001
IC2709
C0DACMG00001
DD 3.3V
3.3V
Q7701
Q7702
Q7703
Q7717
Q7718
Q7719
Q7720
Q7721
Q7722
Q7723
Q7724
Q7725
Q7713
Q7710
Q7714
Q7712
IC7702
C1AB00000441
18
19
20
21
22

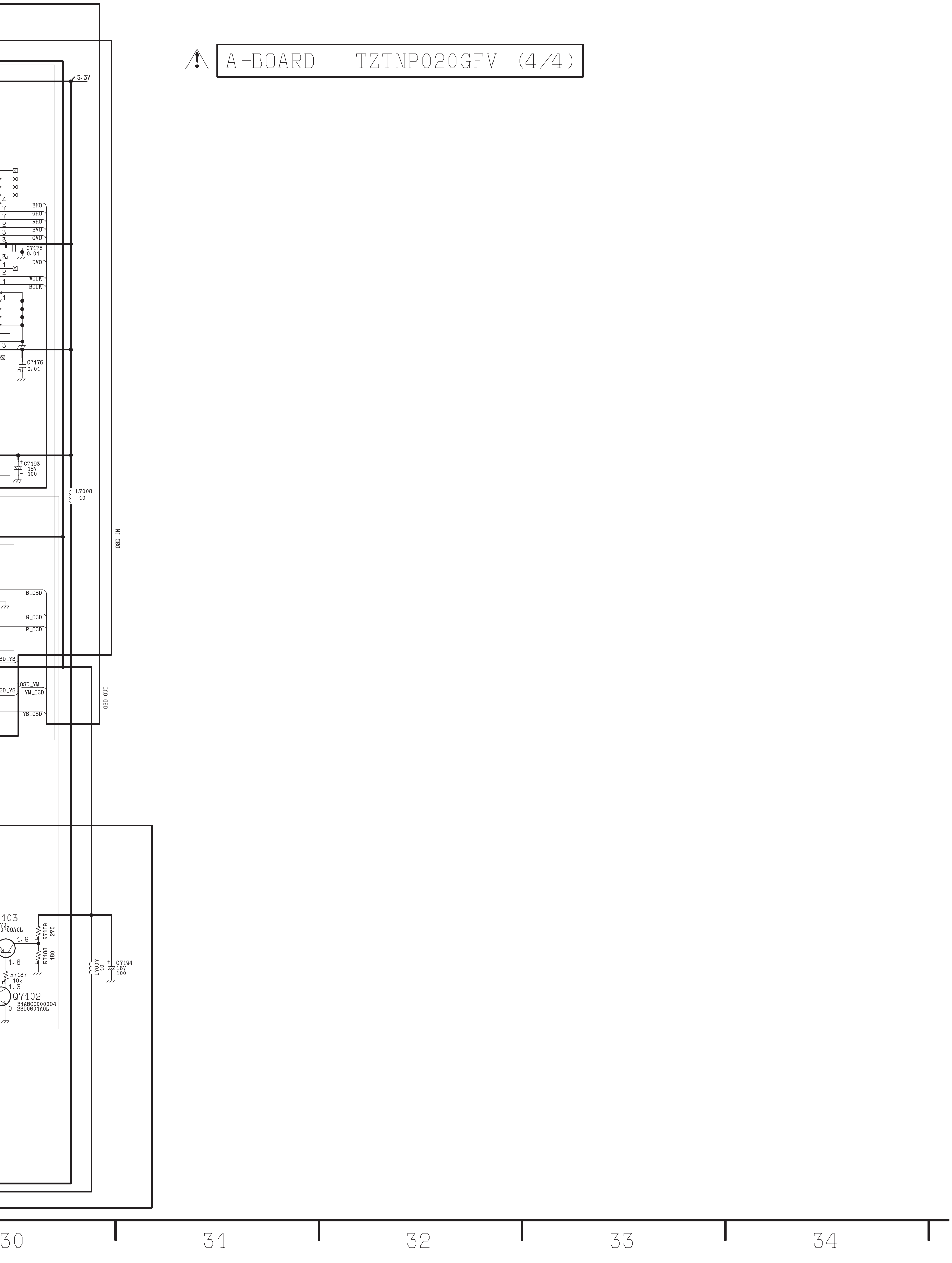

IC2710
C0DAEGG00007
3.3V
IC9351
AN78N09-LB
IC1109
PST9119NR
TO DG-BOARD
TNPA1725
A44
TO LG-BOARD (LG1)
A21
Q9302
2SB0709A0L
MSB709
Q7707
2SC3526H
Q7704
MSB709
2SB0709A0L
Q7708
2SC3526H
Q7705
MSB709
2SB0709A0L
Q7709
2SC3526H
Q7706
MSB709
2SB0709A0L
Q7715
2SD0601A0L
B1ABCC000004
Q7716
MSB709
2SB0709A0L
Q7712
2SC3757OLL
Q7711
MSB709
2SB0709A0L
Q7714
IC7703
AN6912S
TO D-BOARD (D2)
A17
IC501
C0BBBA000043
AN6914S
Q463
B1ABCC000004
2SD0601A0L
Q9301
2SD0601A0L
B1ABCC000004
Q464
MSB709
2SB0709A0L
Q465
B1ABCC000004
2SD0601A0L
IC459
C0JBAM000065
TC74HC221AF
Q460
B1ABCC000004
2SD0601A0L
Q461
B1ABCC000004
2SD0601A0L
Q2308
MSB709
2SB0709A0L
Q462
B1ABCC000004
2SD0601A0L
TO D-BOARD (D3)
A3
TO D-BOARD (D2)
A2
TO D-BOARD (D1)
A1
TO D-BOARD (D6) convergence
A6
TNR GND
EHT
ACL
1080I/OTHER
FBP
H-DRIVE
9V
HV-DAF
EW-OUT
V-GND
V-Vcc+
V-Vcc-
BT 30V
(SOUND +35V)
(S-GND)
GND
15V
DAF SW
PROTECT
BEAM SW
12V
RELAY
STBY 6.5V
RH-OUT
RV-OUT
GH-OUT
GV-OUT
BH-OUT
BV-OUT
A
B
C
D
E
F
G
H
I
J
K
22
23
24
25
26

14.5. A-Board (4 of 4) Schematic Diagram

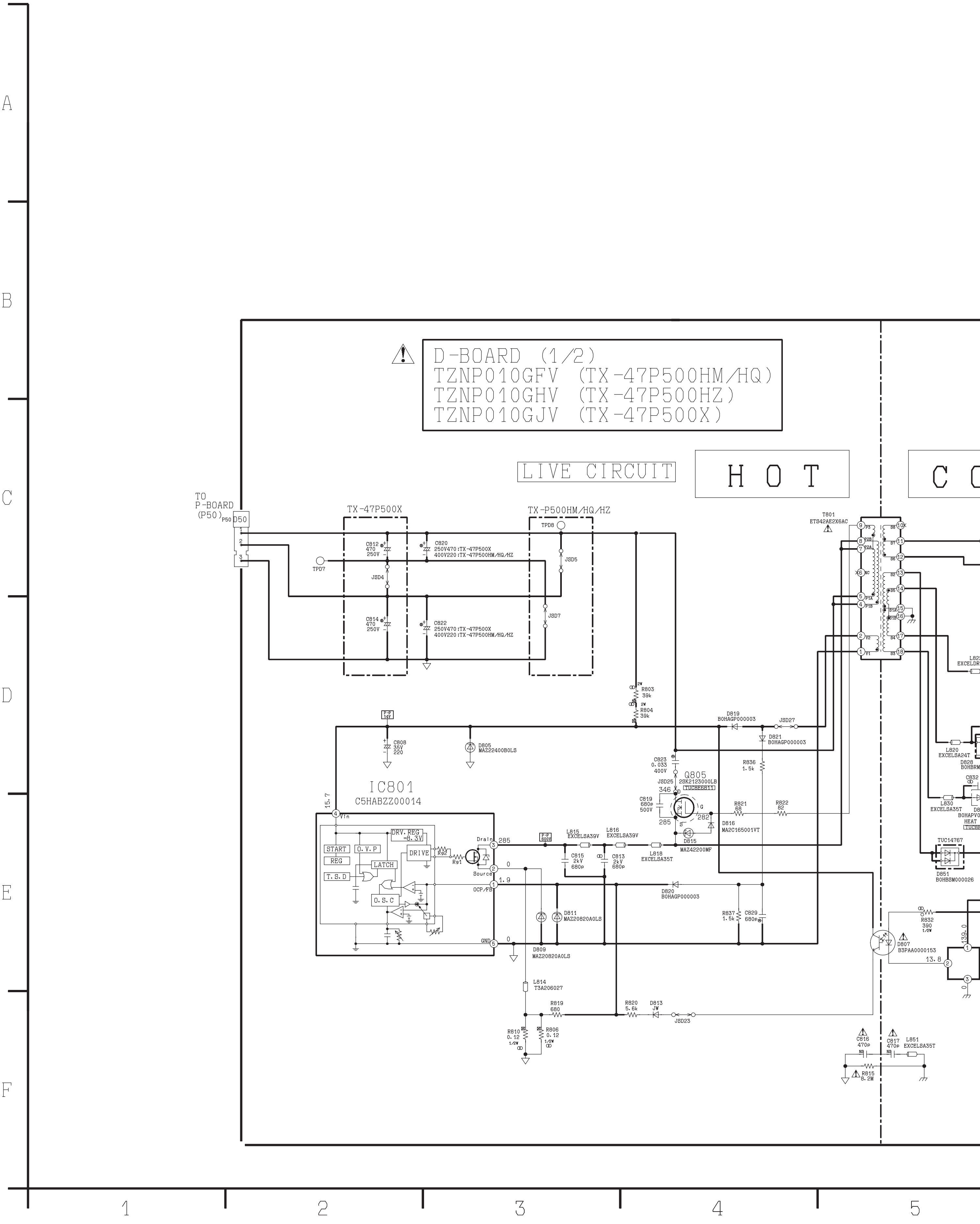


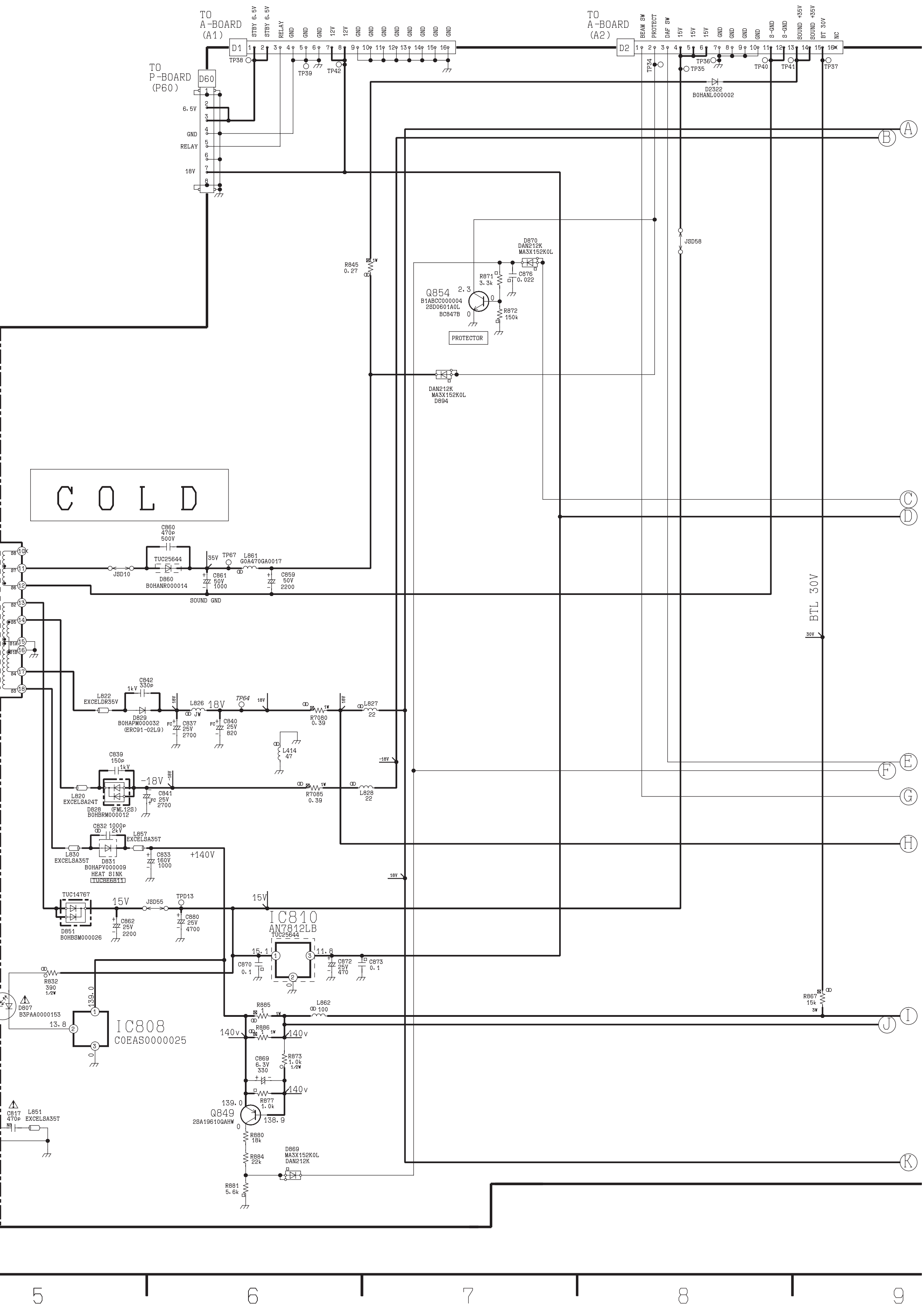
A
B
C
D
E
F
G
H
I
J
K
IC7121
C1AB00000454
IC7102
24LC64
EEPROM
IC7103
C0JBAB000003
IC7101
AN78L05M
IC7104
C0FBBH000040
IC7105
C0ABAA000053
IC7106
C0ABAA000053
IC7107
C1AB00001220
IC7108
AN78L12M
IC7109
AN79L12M
IC7110
C1AB00001394
Q7101
XN0150100L
Q7102
B1ABCC000004
2SD0601A0L
Q7103
MSB709
2SB0709A0L
D7101
MA3X157A0L
D7102
MA3X152E0L
D7103
MA3X152K0L
L7007
L7008
R7131
150
3.3V
5V
+12V
-12V
18V
VCC+
VCC-
V-SYNC
H-SYNC
DI_V
JS16
JS12
JS7102
JS7103
JS7106
TP17
TP18
TP19
RH-OUT
RV-OUT
GV-OUT
GH-OUT
BH-OUT
BV-OUT
B_OSD
G_OSD
R_OSD
OSD_YS
OSD_YM
YM_OSD
YS_OSD
CENTER
RH
RV
GH
GV
BH
BV
WP
SCLM
SDAM
SCL1
SDA1
ACKM
BUSY
OFDET
RAMCLR
I2CRES
MUTE
RESET
TSTOP
26
27
28
29
30

⚠ A-BOARD TZTNP020GFV (4/4)

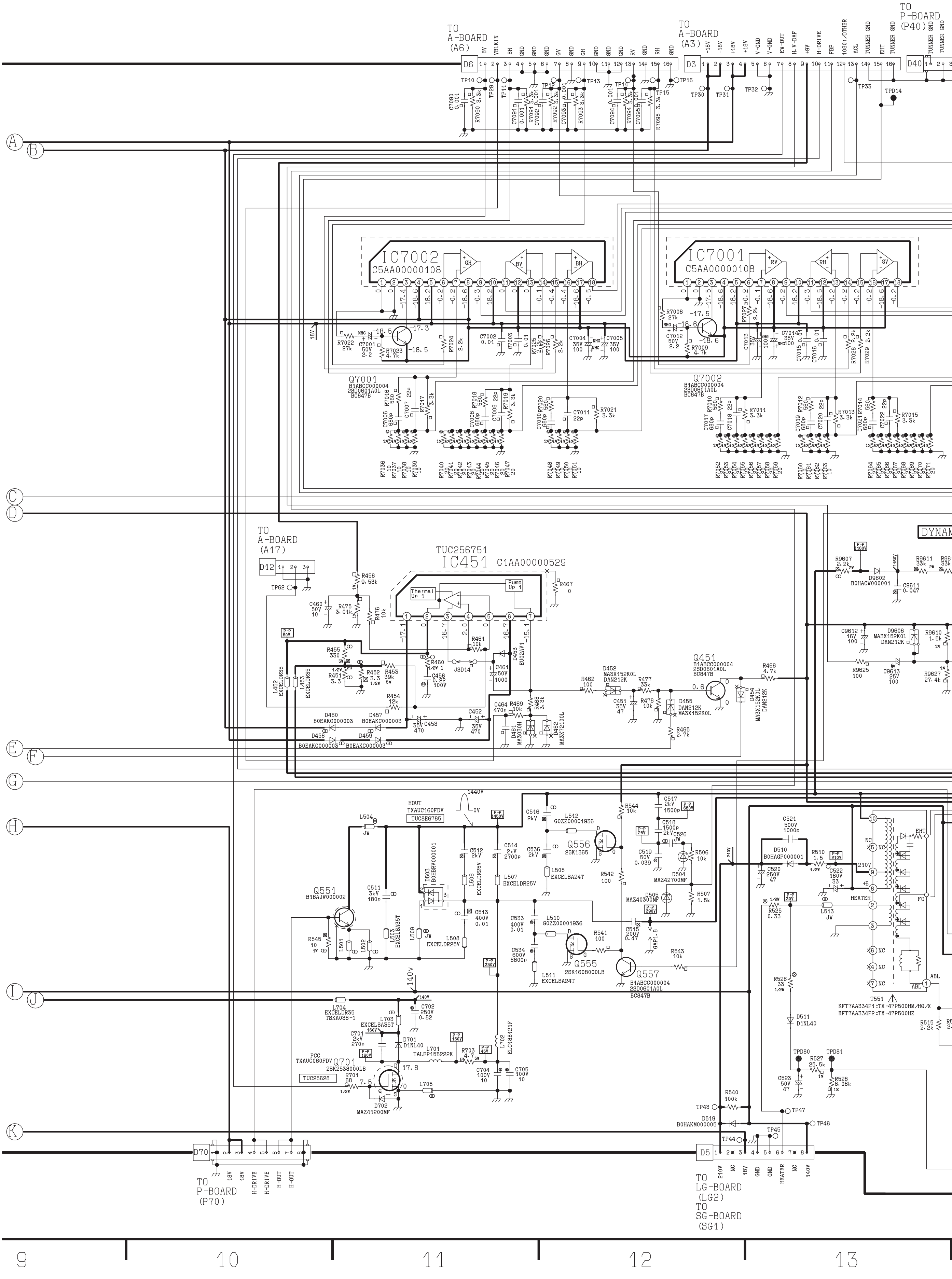

3.3V
BHO
GHO
RHO
BVO
GVO
C7175
0.01
RVO
WCLK
BCLK
C7176
0.01
C7193
16V
100
L7008
10
OSD IN
B_OSD
G_OSD
R_OSD
SD_YS
OSD_YM
SD_YS
YM_OSD
YS_OSD
OSD OUT
103
709
0709A0L
1.9
R7189
270
R7188
180
1.6
R7187
10k
1.3
Q7102
B1ABCC000004
2SD0601A0L
0
L7007
10
C7194
16V
100
30
31
32
33
34

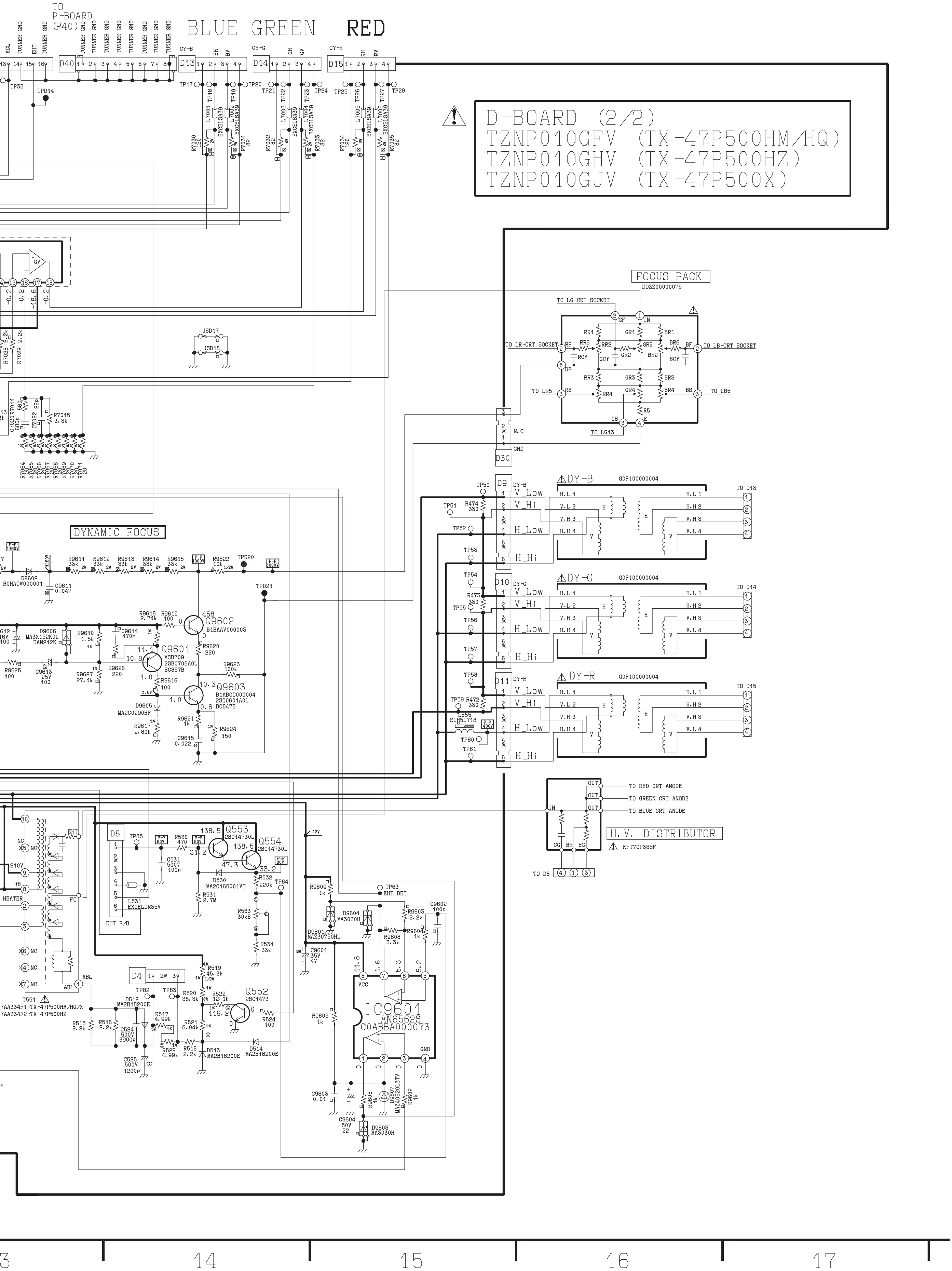
14.6. D-Board (1 of 2) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
D-BOARD (1/2)
TZNP010GFV (TX-47P500HM/HQ)
TZNP010GHV (TX-47P500HZ)
TZNP010GJV (TX-47P500X)
LIVE CIRCUIT
HOT
TO
P-BOARD
(P50)
P50 D50
1
2
3
TX-47P500X
TX-P500HM/HQ/HZ
TPD7
TPD8
C812 470 250V
C814 470 250V
JSD4
C820
250V470:TX-47P500X
400V220:TX-47P500HM/HQ/HZ
C822
250V470:TX-47P500X
400V220:TX-47P500HM/HQ/HZ
JSD5
JSD7
R803 39k 2W
R804 39k 2W
P-P 14V
C808 35V 220
D805 MAZ22400B0LS
IC801
C5HABZZ00014
15.7
4 Vin
DRV.REG =8.3V
START
REG
O.V.P
LATCH
T.S.D
DRIVE
O.S.C
Rg2
Rg1
Drain 3
285
Source 2
0
OCP/FB 1
1.9
GND 5
0
P-P 600V
L815 EXCELSA39V
L816 EXCELSA39V
L818 EXCELSA35T
C815 2kV 680p
C813 2kV 680p
C823 0.033 400V
JSD25
Q805
2SK2123000LB
TUC8E6811
346
D
S
G
285
282
C819 680p 500V
D815 MAZ42200MF
D816 MA2C165001VT
R821 68
R822 82
D819 B0HAGP000003
JSD27
D821 B0HAGP000003
R836 1.5k
D820 B0HAGP000003
R837 1.5k
C829 680p
D811 MAZ20820A0LS
D809 MAZ20820A0LS
L814 T3A206027
R819 680
R820 5.6k
D813 JW
JSD23
R810 0.12 1/2W
R806 0.12 1/2W
T801
ETS42AE2X6AC
9 P3
8 P2B
7 P2A
6 NC
5 P1A
4 P1B
2 V2
1 V1
10 S8
11 S7
12 S6
13 S2
14 S5
15 S1A
16 S1B
17 S4
18 S3
L820 EXCELSA24T
L830 EXCELSA35T
TUC14767
D851 B0HBSM000026
R832 390 1/2W
D807 B3PAA0000153
139.0
13.8
1
2
3
0
C816 470p NS
C817 470p NS
L851 EXCELSA35T
R815 8.2M

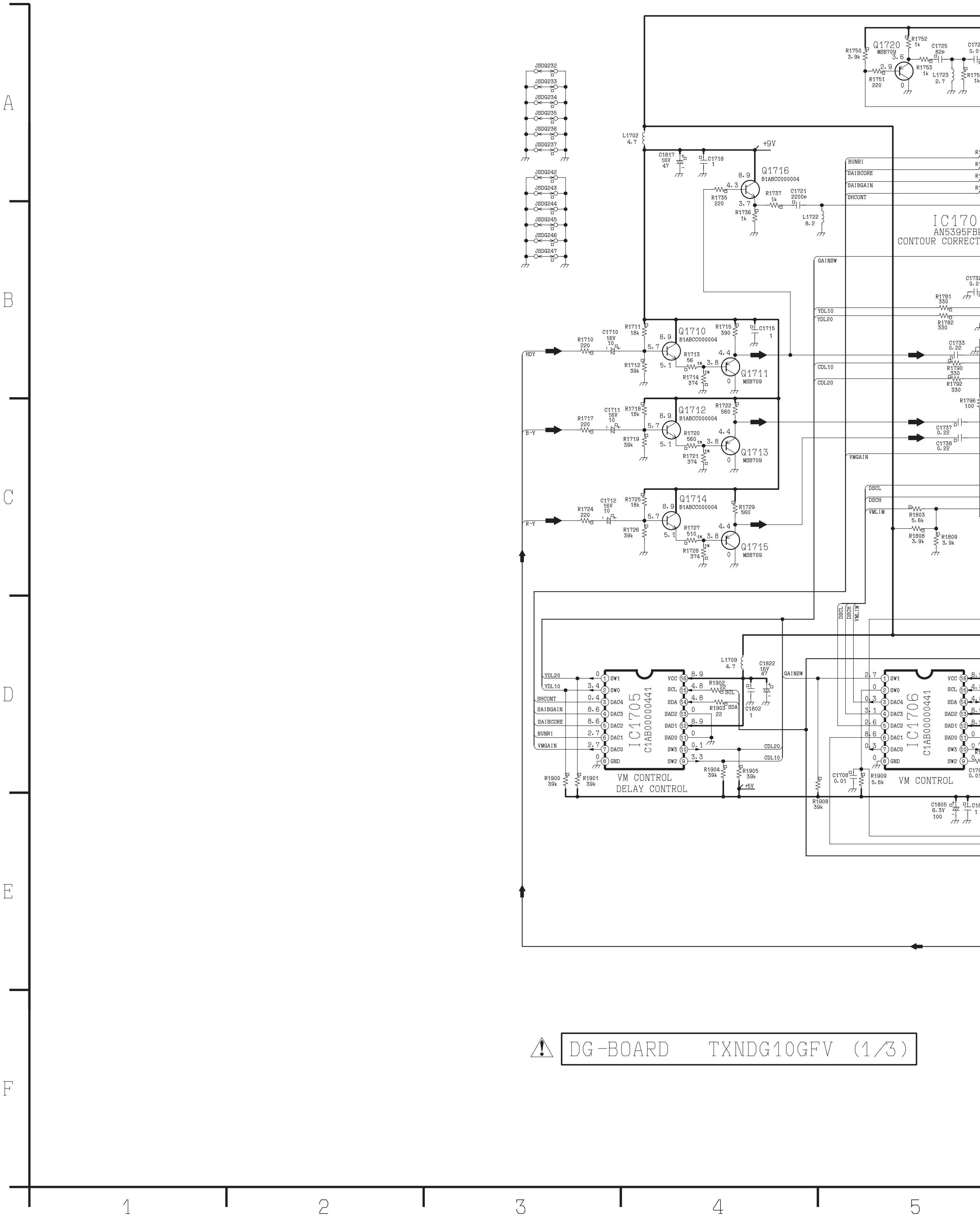

TO A-BOARD (A1)
D1
STBY 6.5V
STBY 6.5V
RELAY
GND
12V
TP38
TP39
TP42
TO P-BOARD (P60)
D60
6.5V
GND
RELAY
18V
TO A-BOARD (A2)
D2
BEAM SW
PROTECT
DAF SW
15V
S-GND
SOUND +35V
BT 30V
NC
TP34
TP35
TP36
TP40
TP41
TP37
D2322
B0HANL000002
JSD58
D870
DAN212K
MA3X152K0L
R871
3.3k
C876
0.022
Q854
B1ABCC000004
2SD0601A0L
BC847B
R872
150k
PROTECTOR
R845
0.27
DAN212K
MA3X152K0L
D894
COLD
C860
470p
500V
TUC25644
D860
B0HANR000014
JSD10
35V
TP67
L861
G0A470GA0017
C861
50V
1000
C859
50V
2200
SOUND GND
BTL 30V
30V
C842
330p
1kV
L822
EXCELDR35V
D829
B0HAPM000032
(ERC91-02L9)
L826
JW
18V
TP64
C837
25V
2700
C840
25V
820
R7080
0.39
L827
22
L414
47
C839
150p
L820
EXCELSA24T
D828
B0HBRM000012
(FML12S)
-18V
C841
25V
2700
R7085
0.39
L828
22
C832
1000p
2kV
L857
EXCELSA35T
L830
EXCELSA35T
D831
B0HAPV000009
HEAT SINK
TUCBE6811
C833
160V
1000
+140V
TUC14767
15V
JSD55
TPD13
D851
B0HBSM000026
C862
25V
2200
C880
25V
4700
IC810
AN7812LB
TUC25644
15.1
11.8
C870
0.1
C872
25V
470
C873
0.1
R832
390
1/2W
D807
B3PAA0000153
139.0
13.8
IC808
C0EAS0000025
R885
1
L862
100
R886
140V
R867
15k
3W
C869
6.3V
330
R873
1.0k
1/2W
R877
1.0k
139.0
Q849
2SA19610QAHW
138.9
R880
18k
R884
22k
D869
MA3X152K0L
DAN212K
R881
5.6k
C817
470p
L851
EXCELSA35T
A
B
C
D
E
F
G
H
I
J
K
5
6
7
8
9

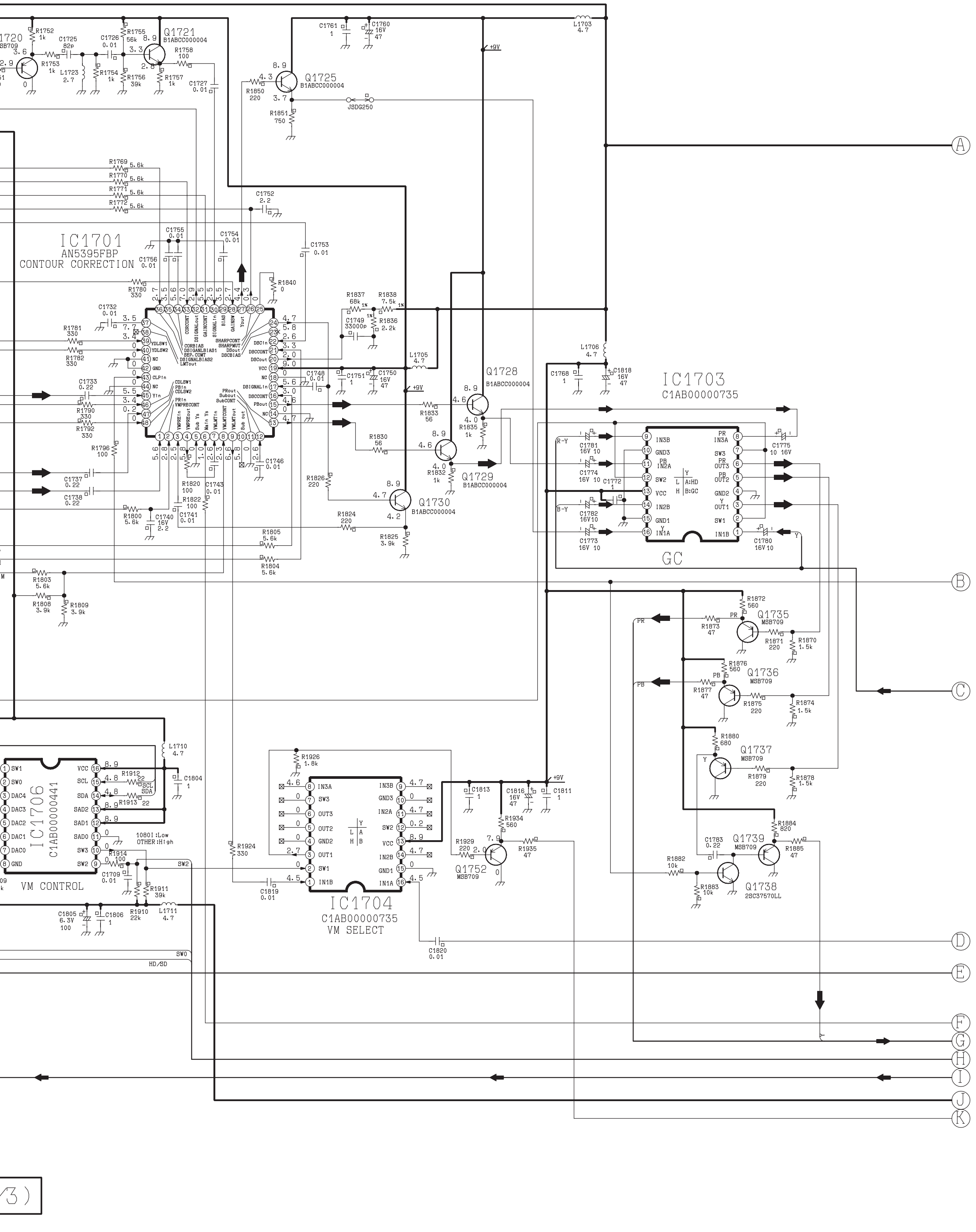
14.7. D-Board (2 of 2) Schematic Diagram


TO A-BOARD (A6)
D6
BV
VBLK IN
BH
GND
GV
GH
RV
RH
TO A-BOARD (A3)
D3
-18V
+18V
V-GND
EW-OUT
H.V-DAF
+9V
H-DRIVE
FBP
1080i/OTHER
ACL
TUNNER GND
EHT
TO P-BOARD (P40)
D40
IC7002
C5AA00000108
IC7001
C5AA00000108
Q7001
B1ABCC000004
2SD0601A0L
BC847B
Q7002
B1ABCC000004
2SD0601A0L
BC847B
TO A-BOARD (A17)
D12
TUC256751
IC451
C1AA00000529
Thermal Up 1
Pump Up 1
Q451
B1ABCC000004
2SD0601A0L
BC847B
DYNAM
HOUT
TXAUC160FDV
TUC8E6785
Q551
B1BAJW000002
Q556
2SK1365
Q555
2SK1608000LB
Q557
B1ABCC000004
2SD0601A0L
BC847B
PCC
TXAUC060FDV
Q701
2SK2538000LB
TUC25628
T551
KFT7AA334F1:TX-47P500HM/HQ/X
KFT7AA334F2:TX-47P500HZ
EHT
HEATER
ABL
FO
D70
TO P-BOARD (P70)
18V
H-DRIVE
H-OUT
D5
TO LG-BOARD (LG2)
TO SG-BOARD (SG1)
210V
NC
18V
GND
HEATER
140V
A
B
C
D
E
F
G
H
I
J
K
9
10
11
12
13

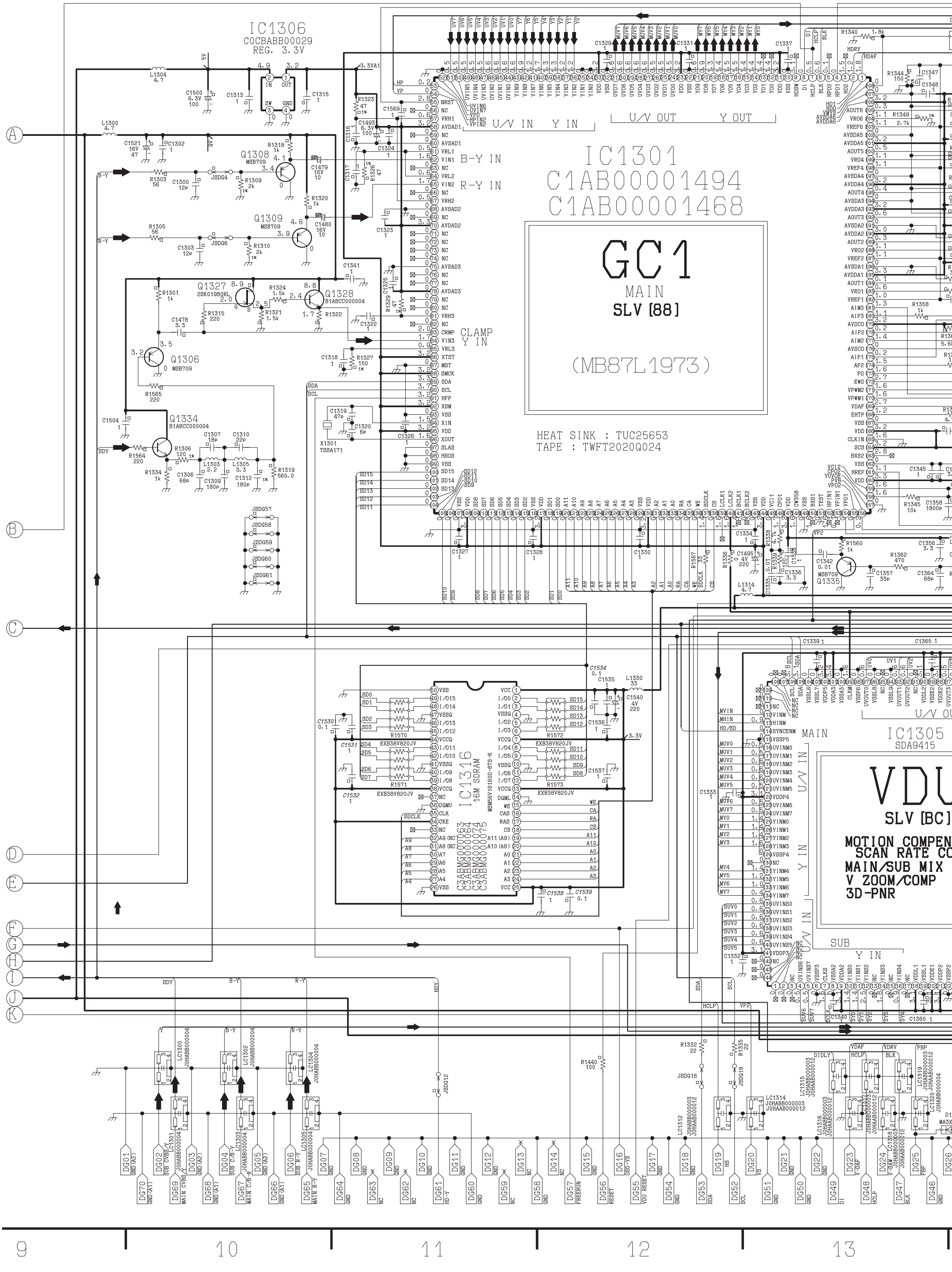

D-BOARD (2/2)
TZNP010GFV (TX-47P500HM/HQ)
TZNP010GHV (TX-47P500HZ)
TZNP010GJV (TX-47P500X)
TO P-BOARD (P40)
BLUE GREEN RED
D40
D13
D14
D15
CY-B
CY-G
CY-R
FOCUS PACK
D9ZZ00000075
TO LG-CRT SOCKET
TO LR-CRT SOCKET
TO LB-CRT SOCKET
TO LR5
TO LB5
TO LG13
D30
N.C
GND
DY-B
DY-G
DY-R
G0F100000004
TO D13
TO D14
TO D15
V_Low
V_Hi
H_Low
H_Hi
D9
D10
D11
DYNAMIC FOCUS
Q9601
Q9602
Q9603
Q553
Q554
Q552
IC9601
AN6562S
C0ABBA000073
H.V. DISTRIBUTOR
KFT7CP336F
TO RED CRT ANODE
TO GREEN CRT ANODE
TO BLUE CRT ANODE
TO D8
D8
D4
EHT F/B
EHT DET
T551
HEATER
ABL
JSD17
JSD18
TPD20
TPD21
12V
13
14
15
16
17

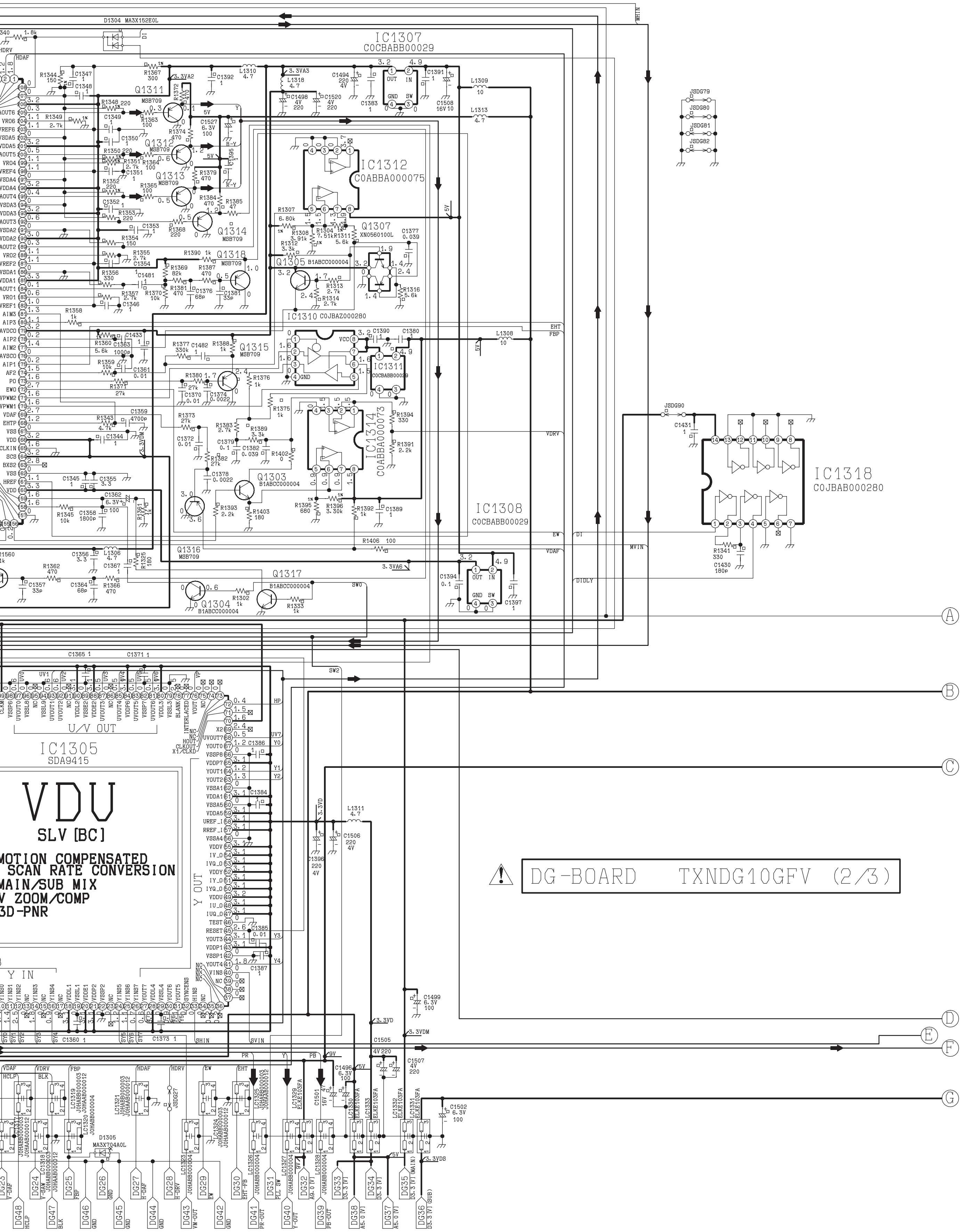
14.8. DG-Board (1 of 3) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
JSDG232
JSDG233
JSDG234
JSDG235
JSDG236
JSDG237
JSDG242
JSDG243
JSDG244
JSDG245
JSDG246
JSDG247
Q1720
MSB709
R1750 3.9k
R1751 220
R1752 1k
R1753 1k
C1725 82p
L1723 2.7
L1702 4.7
C1817 16V 47
C1718 1
+9V
Q1716
B1ABCC000004
R1735 220
R1736 1k
R1737 1k
C1721 2200p
L1722 8.2
BUNRI
SAIBCORE
SAIBGAIN
SHCONT
IC170
AN5395FBP
CONTOUR CORRECT
GAINSW
YDL10
YDL20
CDL10
CDL20
VMGAIN
DSCL
DSCH
VMLIM
R1781 330
R1782 330
C1733 0.22
R1790 330
R1792 330
R1796 100
C1737 0.22
C1738 0.22
R1803 5.6k
R1808 3.9k
R1809 3.9k
HDY
B-Y
R-Y
R1710 220
C1710 16V 10
R1711 18k
R1712 39k
Q1710
B1ABCC000004
R1713 56
R1714 374
R1715 390
C1715 1
Q1711
MSB709
R1717 220
C1711 16V 10
R1718 18k
R1719 39k
Q1712
B1ABCC000004
R1720 560
R1721 374
R1722 560
Q1713
MSB709
R1724 220
C1712 16V 10
R1725 18k
R1726 39k
Q1714
B1ABCC000004
R1727 510
R1728 374
R1729 560
Q1715
MSB709
L1709 4.7
C1822 16V 47
C1802 1
R1902 22
R1903 22
SCL
SDA
IC1705
C1AB00000441
VM CONTROL
DELAY CONTROL
SW1
SW0
DAC4
DAC3
DAC2
DAC1
DAC0
GND
VCC
SAD2
SAD1
SAD0
SW3
SW2
R1900 39k
R1901 39k
R1904 39k
R1905 39k
+5V
IC1706
C1AB00000441
VM CONTROL
R1908 39k
R1909 5.6k
C1708 0.01
C1805 6.3V 100
DG-BOARD TXNDG10GFV (1/3)


IC1701
AN5395FBP
CONTOUR CORRECTION
IC1703
C1AB00000735
GC
IC1704
C1AB00000735
VM SELECT
IC1706
C1AB00000441
VM CONTROL
Q1720
Q1721
B1ABCC000004
Q1725
B1ABCC000004
Q1728
B1ABCC000004
Q1729
B1ABCC000004
Q1730
B1ABCC000004
Q1735
MSB709
Q1736
MSB709
Q1737
MSB709
Q1738
2SC37570LL
Q1739
MSB709
Q1752
MSB709
JSDG250
L1703
4.7
L1705
4.7
L1706
4.7
L1710
4.7
L1711
4.7
+9V
IN3B
GND3
IN2A
SW2
VCC
IN2B
GND1
IN1A
IN3A
SW3
OUT3
OUT2
GND2
OUT1
SW1
IN1B
L A:HD
H B:GC
SW1
SW0
DAC4
DAC3
DAC2
DAC1
DAC0
GND
VCC
SCL
SDA
SAD2
SAD1
SAD0
SW3
SW2
10801:Low
OTHER:High
SW2
SW0
HD/SD
PR
PB
Y
R-Y
B-Y
A
B
C
D
E
F
G
H
I
J
K
(3)
5
6
7
8
9

14.9. DG-Board (2 of 3) Schematic Diagram

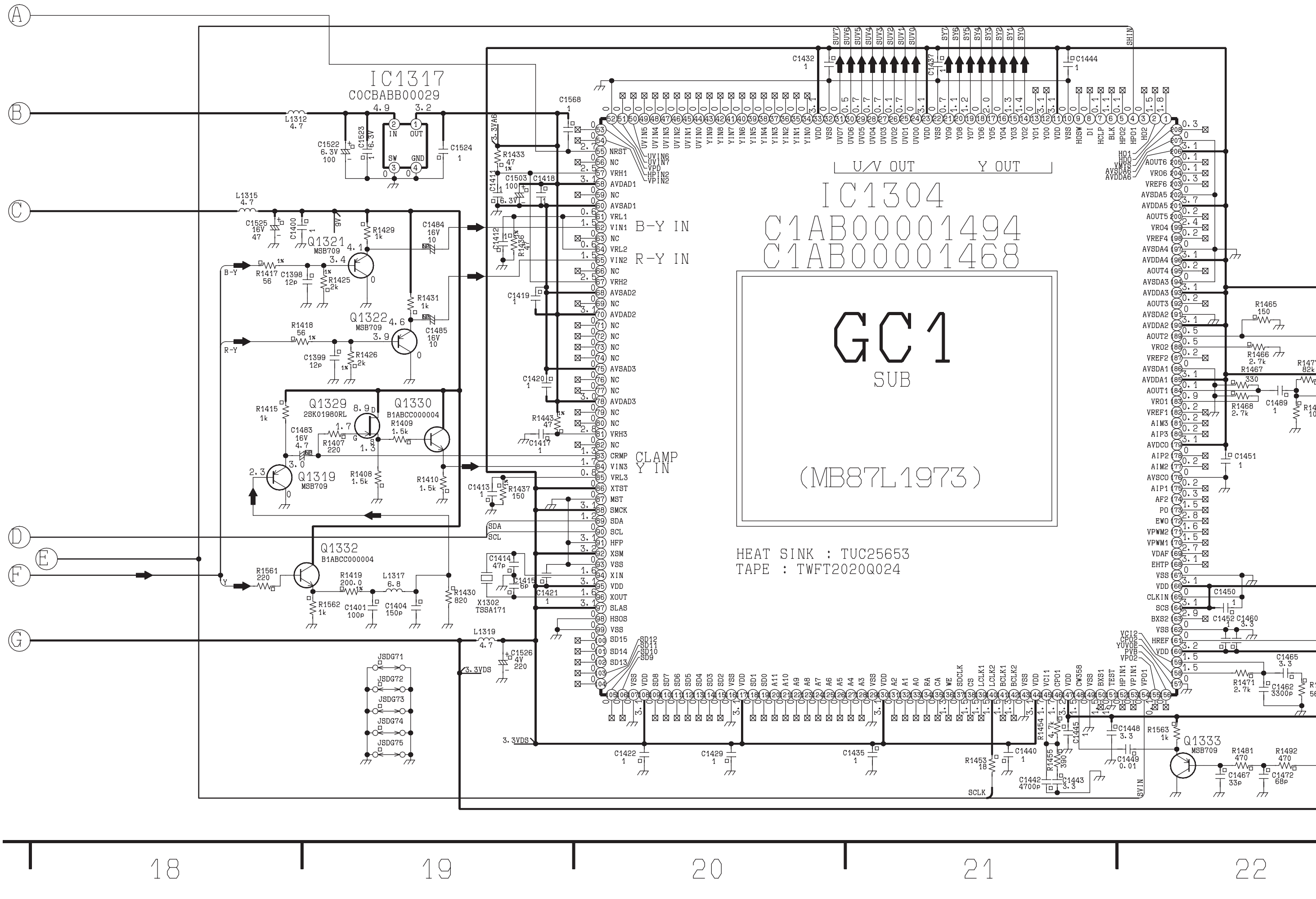

IC1306
C0CBABB00029
REG. 3.3V
IC1301
C1AB00001494
C1AB00001468
GC1
MAIN
SLV [88]
(MB87L1973)
HEAT SINK : TUC25653
TAPE : TWFT2020Q024
U/V IN Y IN
U/V OUT Y OUT
B-Y IN
R-Y IN
CLAMP
Y IN
Q1308
Q1309
Q1327
Q1328
Q1306
Q1334
Q1335
X1301
TSSA171
IC1316
16M SDRAM
MSM56V16160D-8TS-K
IC1305
SDA9415
VDU
SLV [BC]
MOTION COMPEN
SCAN RATE C
MAIN/SUB MIX
V ZOOM/COMP
3D-PNR
MAIN
SUB
U/V IN
Y IN
A
B
C
D
E
F
G
H
I
J
K
9
10
11
12
13

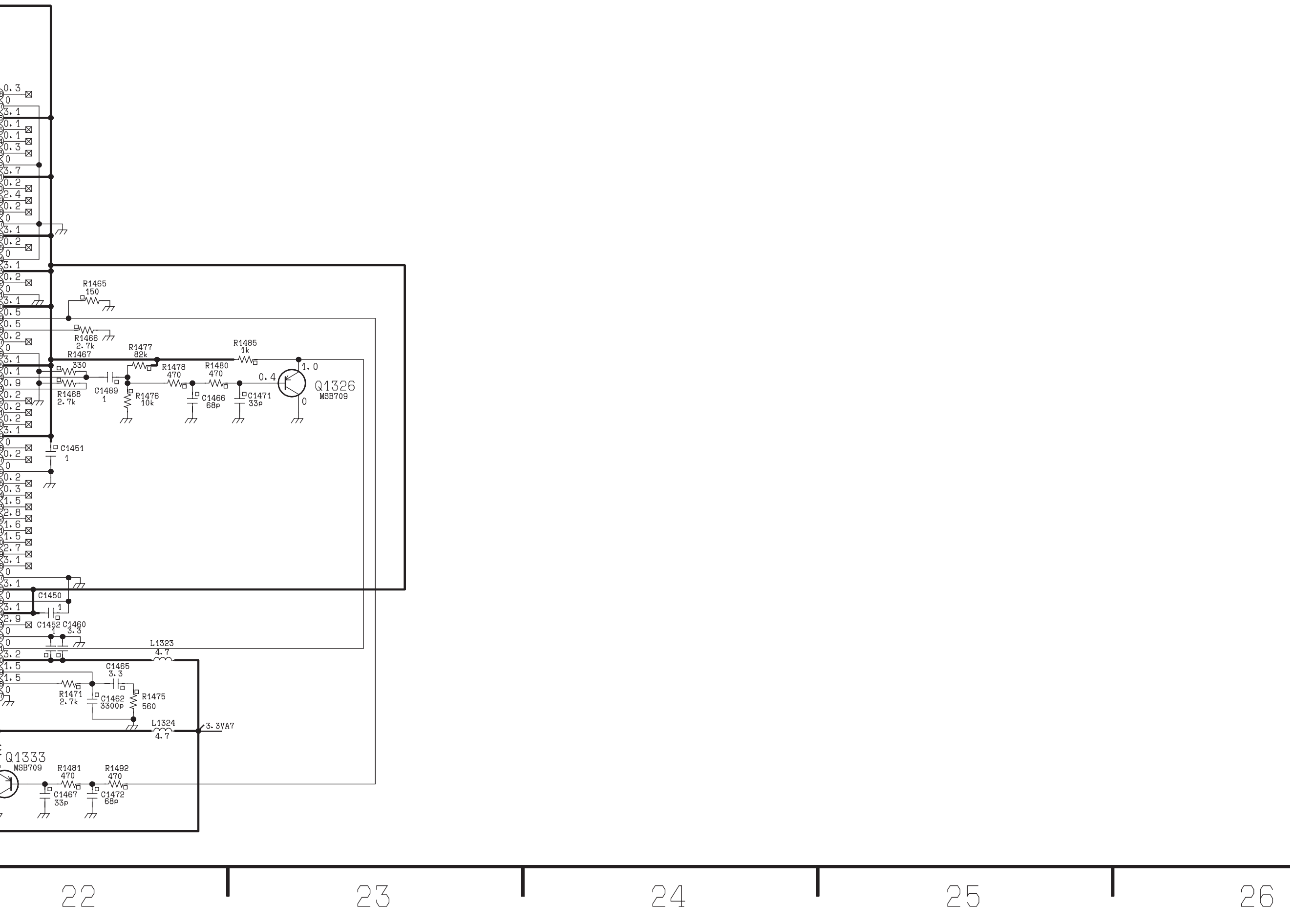

IC1307
C0CBABB00029
IC1312
C0ABBA000075
Q1307
XN0560100L
Q1305
B1ABCC000004
IC1310 C0JBAZ000280
IC1311
C0CBABB00029
IC1314
C0ABBA000073
Q1303
B1ABCC000004
IC1308
C0CBABB00029
IC1318
C0JBAB000280
Q1311
Q1312
Q1313
Q1314
Q1318
Q1315
Q1316
Q1317
Q1304
D1304 MA3X152E0L
D1305
MA3X704A0L
IC1305
SDA9415
VDU
SLV [BC]
MOTION COMPENSATED
SCAN RATE CONVERSION
MAIN/SUB MIX
V ZOOM/COMP
3D-PNR
U/V OUT
Y OUT
Y IN
JSDG79
JSDG80
JSDG81
JSDG82
JSDG90
A
B
C
D
E
F
G
DG23
DG24
DG25
DG26
DG27
DG28
DG29
DG30
DG31
DG32
DG33
DG34
DG35
DG36
DG37
DG38
DG39
DG40
DG41
DG42
DG43
DG44
DG45
DG46
DG47
DG48
13
14
15
16
17

⚠ DG-BOARD TXNDG10GFV (2/3)

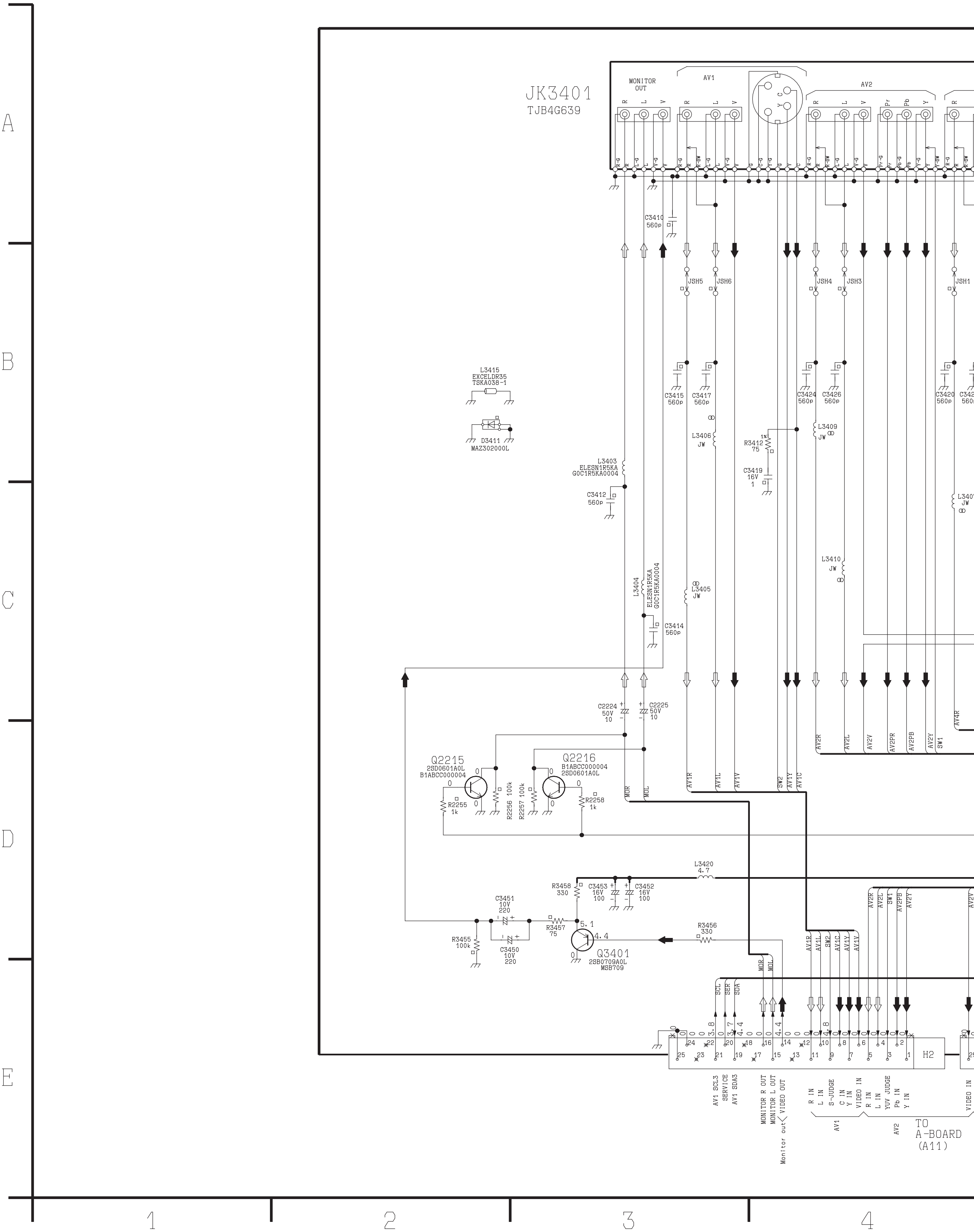
14.10. DG-Board (3 of 3) Schematic Diagram

⚠ DG-BOARD TXNDG10GFV (3/3)

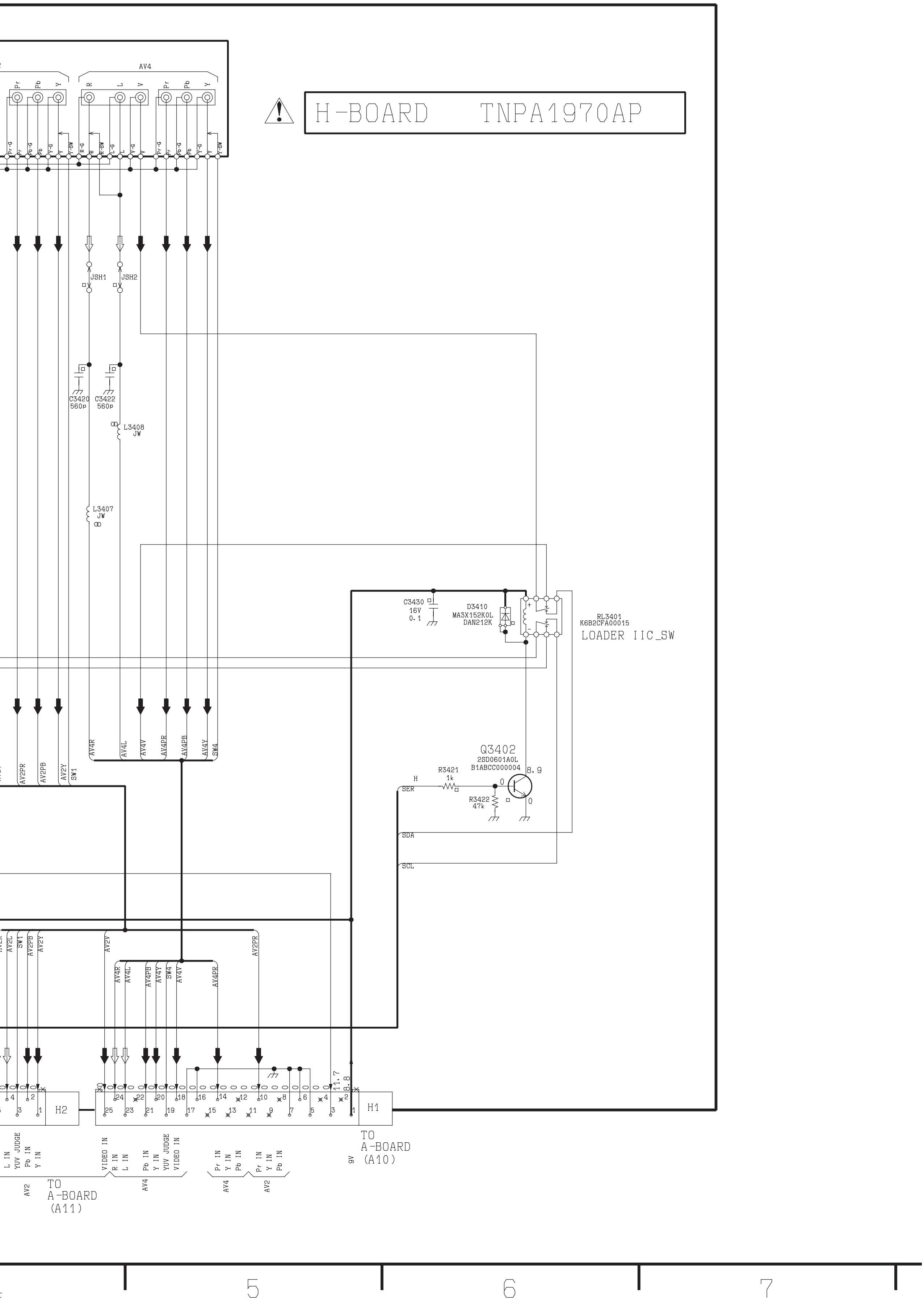

A
B
C
D
E
F
G
IC1317
C0CBABB00029
IN
OUT
SW
GND
L1312
L1315
L1317
L1319
Q1321
MSB709
Q1322
MSB709
Q1329
2SK01980RL
Q1330
B1ABCC000004
Q1319
MSB709
Q1332
B1ABCC000004
Q1333
MSB709
X1302
TSSA171
B-Y
R-Y
Y
SDA
SCL
3.3VDS
3.3VA6
JSDG71
JSDG72
JSDG73
JSDG74
JSDG75
IC1304
C1AB00001494
C1AB00001468
B-Y IN
R-Y IN
CLAMP
Y IN
U/V OUT
Y OUT
GC1
SUB
(MB87L1973)
HEAT SINK : TUC25653
TAPE : TWFT2020Q024
SCLK
SVIN
SHIN
18
19
20
21
22


R1465
150
R1466
2.7k
R1467
330
R1468
2.7k
C1489
1
R1477
82k
R1476
10k
R1478
470
R1480
470
C1466
68p
C1471
33p
R1485
1k
1.0
0.4
0
Q1326
MSB709
C1451
1
C1450
1
C1452
1
C1460
3.3
L1323
4.7
C1465
3.3
R1471
2.7k
C1462
3300p
R1475
560
L1324
4.7
3.3VA7
Q1333
MSB709
R1481
470
R1492
470
C1467
33p
C1472
68p
22
23
24
25
26

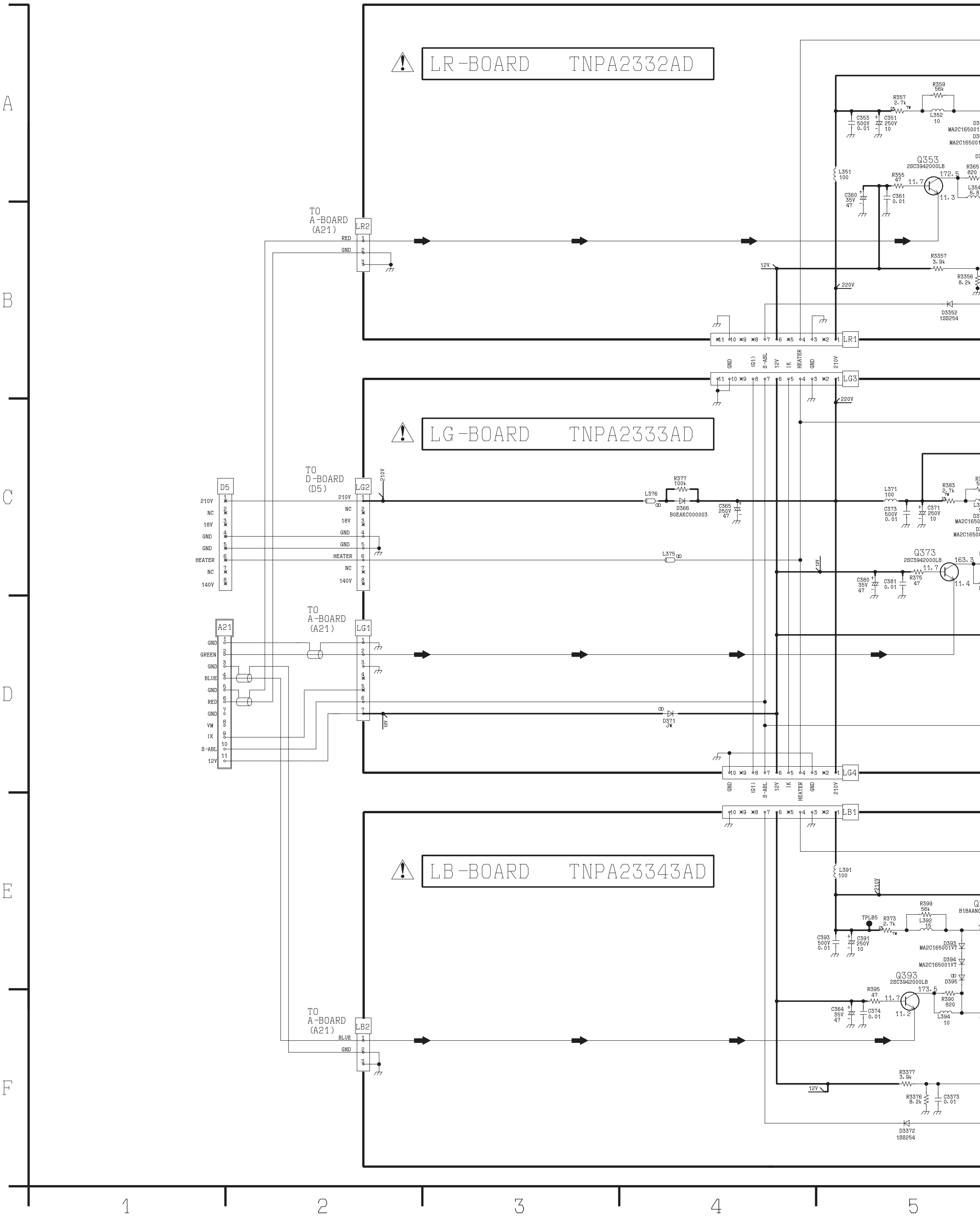
14.11. H-Board Schematic Diagram



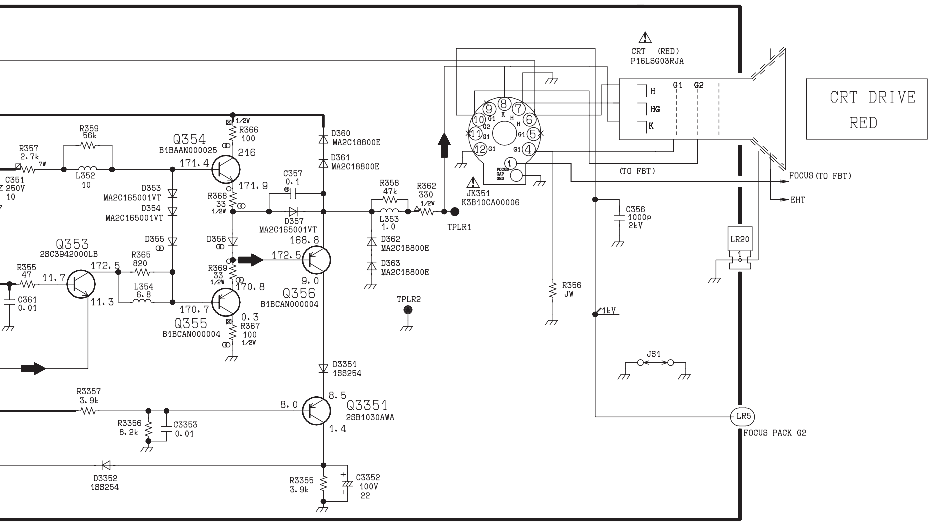
A
B
C
D
E
1
2
3
4
JK3401
TJB4G639
MONITOR OUT
AV1
AV2
C3410 560p
JSH5
JSH6
JSH4
JSH3
JSH1
L3415 EXCELDR35 TSKA038-1
D3411 MAZ302000L
C3415 560p
C3417 560p
C3424 560p
C3426 560p
C3420 560p
L3406 JW
L3409 JW
R3412 1k 75
C3419 16V 1
L3403 ELESN1R5KA G0C1R5KA0004
C3412 560p
L3410 JW
L3404 ELESN1R5KA G0C1R5KA0004
L3405 JW
C3414 560p
C2224 50V 10
C2225 50V 10
Q2215 2SD0601A0L B1ABCC000004
Q2216 B1ABCC000004 2SD0601A0L
R2255 1k
R2256 100k
R2257 100k
R2258 1k
MOR
MOL
AV1R
AV1L
AV1V
SW2
AV1Y
AV1C
AV2R
AV2L
AV2V
AV2PR
AV2PB
AV2Y
SW1
AV4R
L3420 4.7
R3458 330
C3453 16V 100
C3452 16V 100
C3451 10V 220
C3450 10V 220
R3455 100k
R3457 75
Q3401 2SB0709A0L MSB709
R3456 330
5.1
4.4
SCL
SER
SDA
H2
AV1 SCL3
SERVICE
AV1 SDA3
MONITOR R OUT
MONITOR L OUT
VIDEO OUT
Monitor out
R IN
L IN
S-JUDGE
C IN
Y IN
VIDEO IN
R IN
L IN
YUV JUDGE
Pb IN
Y IN
VIDEO IN
AV1
AV2
TO A-BOARD (A11)

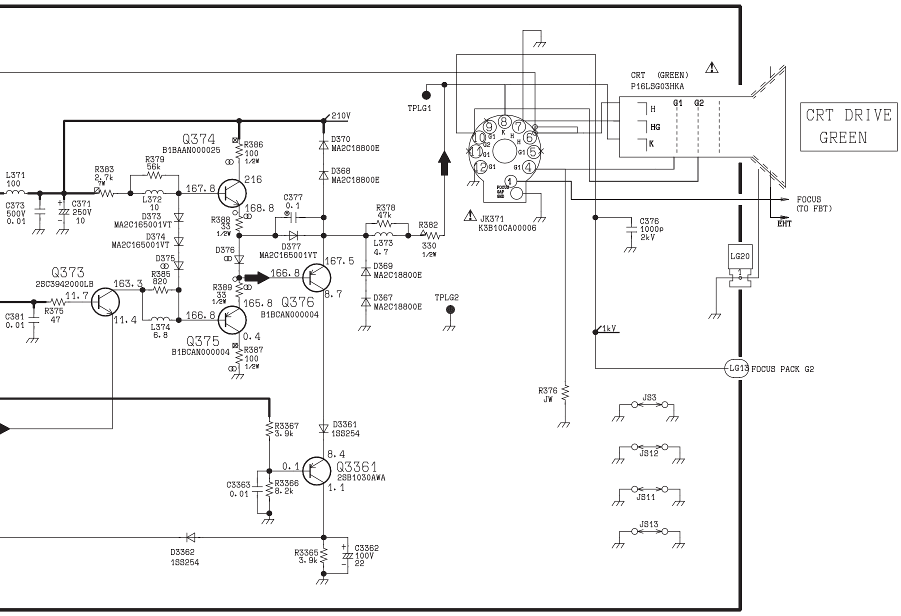

H-BOARD TNPA1970AP
AV4
R
L
V
Pr
Pb
Y
JSH1
JSH2
C3420 560p
C3422 560p
L3408 JW
L3407 JW
C3430 16V 0.1
D3410 MA3X152K0L DAN212K
RL3401 K6B2CFA00015
LOADER IIC_SW
Q3402 2SD0601A0L B1ABCC000004
8.9
R3421 1k
R3422 47k
H
0
0
SER
SDA
SCL
AV4R
AV4L
AV4V
AV4PR
AV4PB
AV4Y
SW4
AV2PR
AV2PB
AV2Y
SW1
AV2V
AV2PR
AV4PR
11.7
8.8
H1
H2
TO A-BOARD (A10)
9V
TO A-BOARD (A11)
L IN
YUV JUDGE
Pb IN
Y IN
AV2
VIDEO IN
R IN
L IN
Pb IN
Y IN
YUV JUDGE
VIDEO IN
AV4
Pr IN
Y IN
Pb IN
AV4
Pr IN
Y IN
Pb IN
AV2
5
6
7

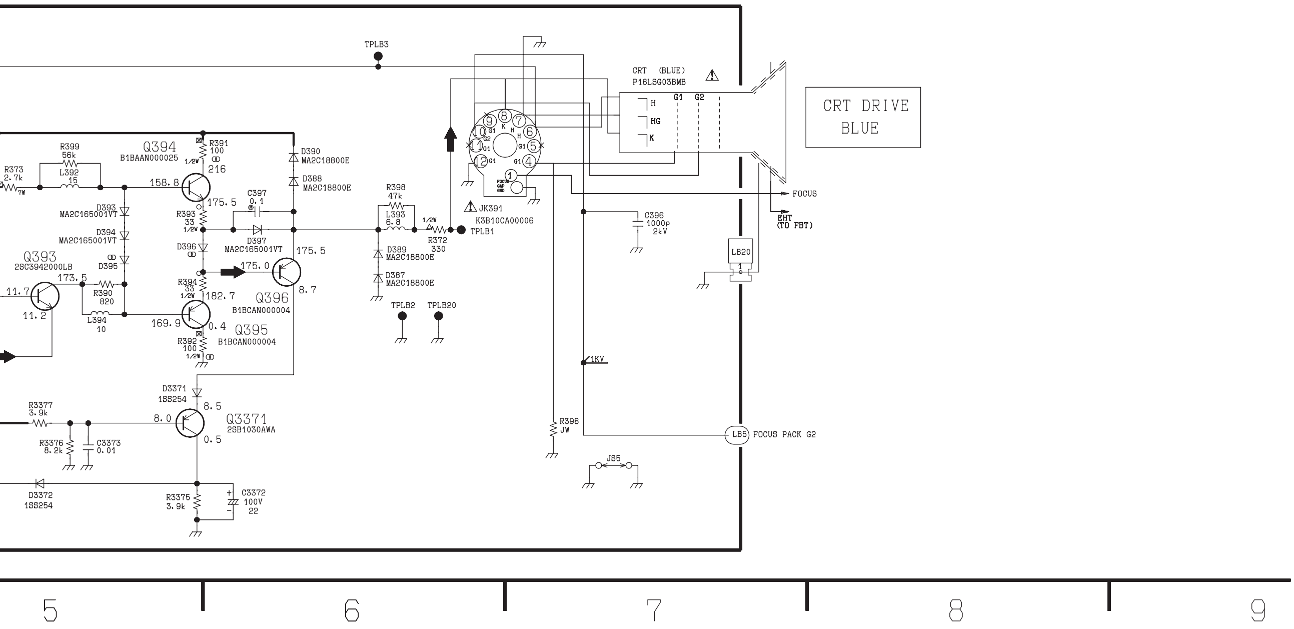
14.12. LR, LG and LB-Board Schematic Diagram



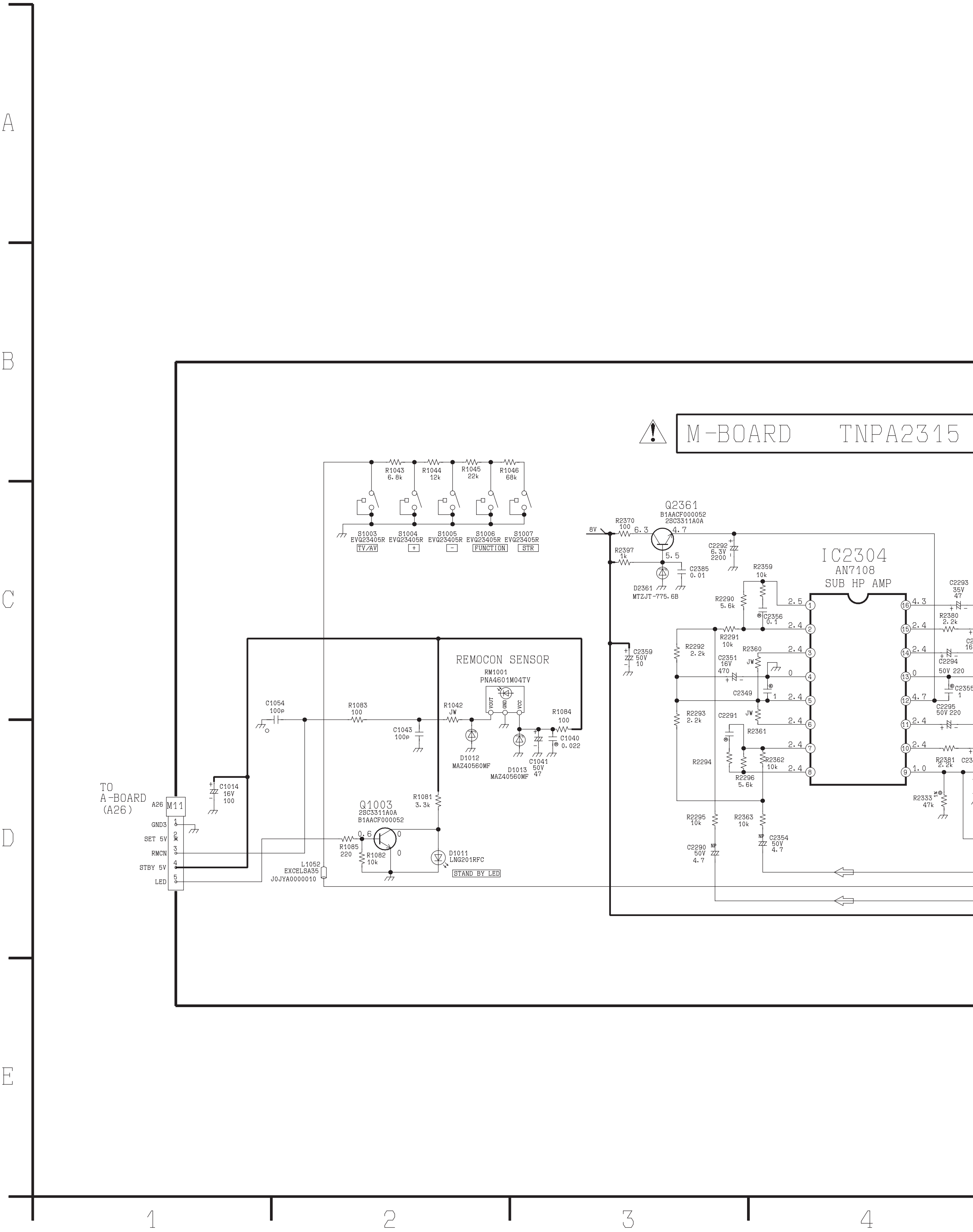
A
B
C
D
E
F
1
2
3
4
5
LR-BOARD TNPA2332AD
LG-BOARD TNPA2333AD
LB-BOARD TNPA23343AD
TO A-BOARD (A21)
LR2
RED
GND
TO D-BOARD (D5)
LG2
D5
210V
NC
18V
GND
HEATER
140V
A21
LG1
GREEN
BLUE
RED
VM
IK
S-ABL
12V
TO A-BOARD (A21)
LB2
LR1
LG3
LG4
LB1
(G1)
220V
R359 56k
R357 2.7k
L352 10
C353 500V 0.01
C351 250V 10
MA2C165001
Q353 2SC3942000LB
R355 47
R365 820
L351 100
C360 35V 47
C361 0.01
172.5
11.7
11.3
R3357 3.9k
R3356 8.2k
D3352 1SS254
R377 100k
L376
D366 B0EAKC000003
C365 250V 47
L371 100
R383 2.7k
C373 500V 0.01
C371 250V 10
L375
Q373 2SC3942000LB
R375 47
C380 35V 47
C381 0.01
163.3
11.7
11.4
D371 JW
L391 100
R399 56k
TPLB5
R373 2.7k
L392 15
C393 500V 0.01
C391 250V 10
D393 MA2C165001VT
D394 MA2C165001VT
Q393 2SC3942000LB
D395
R395 47
R390 820
C364 35V 47
C374 0.01
L394 10
173.5
11.7
11.2
R3377 3.9k
R3376 8.2k
C3373 0.01
D3372 1SS254

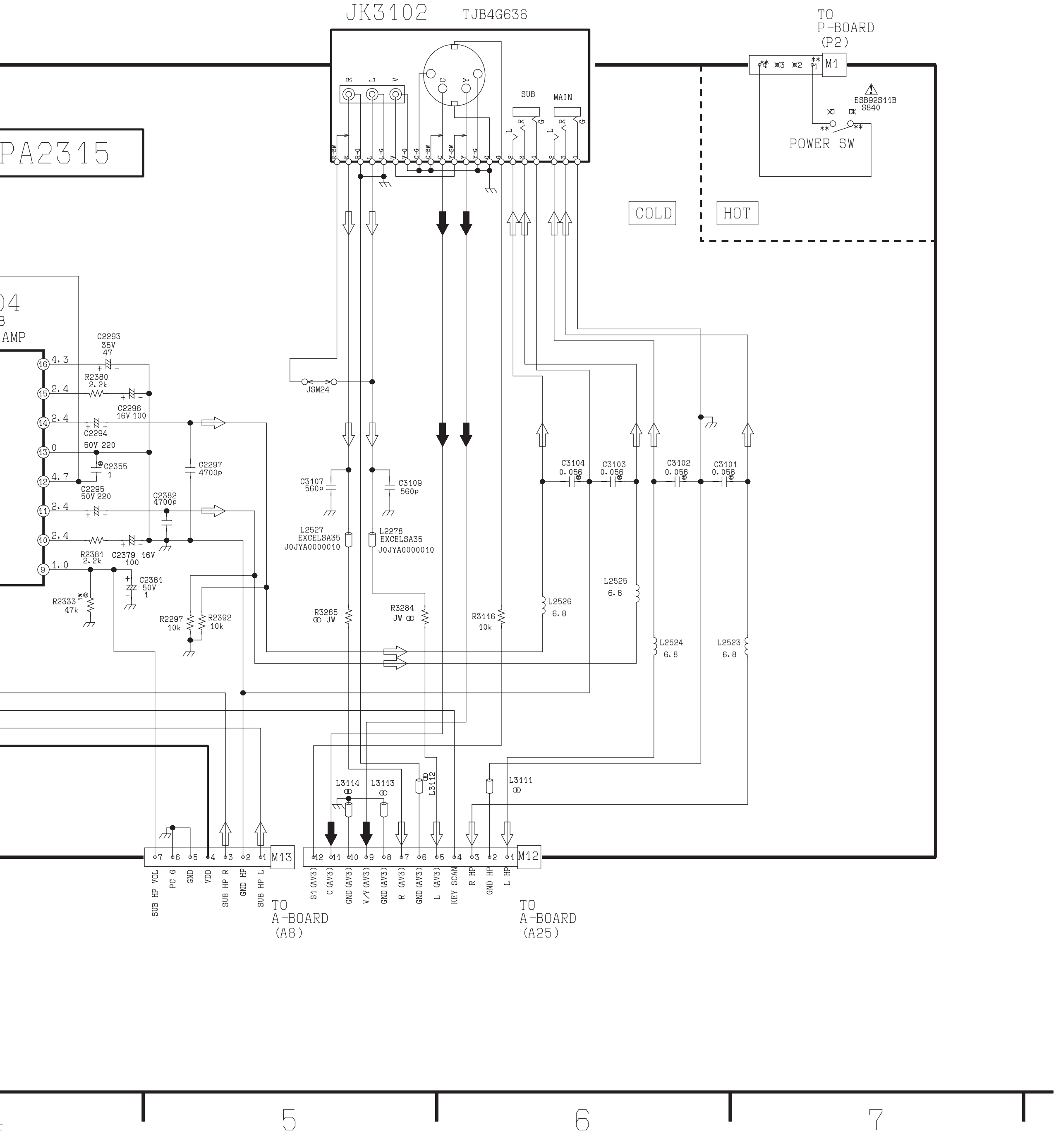

CRT DRIVE
RED
CRT (RED)
P16LSG03RJA
H
HG
K
G1
G2
(TO FBT)
FOCUS (TO FBT)
EHT
JK351
K3B10CA00006
LR20
LR5
FOCUS PACK G2
1kV
JS1
TPLR1
TPLR2
Q354
B1BAAN000025
Q353
2SC3942000LB
Q355
B1BCAN000004
Q356
B1BCAN000004
Q3351
2SB1030AWA
R357
2.7k
R359
56k
L352
10
C351
250V
10
R366
100
1/2W
R368
33
1/2W
R369
33
1/2W
R367
100
1/2W
R365
820
L354
6.8
R355
47
C361
0.01
D353
MA2C165001VT
D354
MA2C165001VT
D355
D356
D357
MA2C165001VT
C357
0.1
D360
MA2C18800E
D361
MA2C18800E
R358
47k
L353
1.0
R362
330
1/2W
D362
MA2C18800E
D363
MA2C18800E
C356
1000p
2kV
R356
JW
D3351
1SS254
R3357
3.9k
R3356
8.2k
C3353
0.01
D3352
1SS254
R3355
3.9k
C3352
100V
22
171.4
216
171.9
168.8
172.5
172.5
11.7
11.3
170.8
170.7
9.0
0.3
8.5
8.0
1.4


CRT DRIVE
GREEN
CRT (GREEN)
P16LSG03HKA
H
HG
K
G1
G2
FOCUS
(TO FBT)
EHT
JK371
K3B10CA00006
LG20
LG13
FOCUS PACK G2
1kV
JS3
JS12
JS11
JS13
TPLG1
TPLG2
210V
Q374
B1BAAN000025
Q373
2SC3942000LB
Q375
B1BCAN000004
Q376
B1BCAN000004
Q3361
2SB1030AWA
L371
100
C373
500V
0.01
C371
250V
10
R383
2.7k
R379
56k
L372
10
R386
100
1/2W
R388
33
1/2W
R389
33
1/2W
R387
100
1/2W
R385
820
L374
6.8
R375
47
C381
0.01
D373
MA2C165001VT
D374
MA2C165001VT
D375
D376
D377
MA2C165001VT
C377
0.1
D370
MA2C18800E
D368
MA2C18800E
R378
47k
L373
4.7
R382
330
1/2W
D369
MA2C18800E
D367
MA2C18800E
C376
1000p
2kV
R376
JW
R3367
3.9k
D3361
1SS254
C3363
0.01
R3366
8.2k
D3362
1SS254
R3365
3.9k
C3362
100V
22
167.8
216
168.8
167.5
166.8
165.8
163.3
11.7
11.4
166.8
8.7
0.4
8.4
0.1
1.1

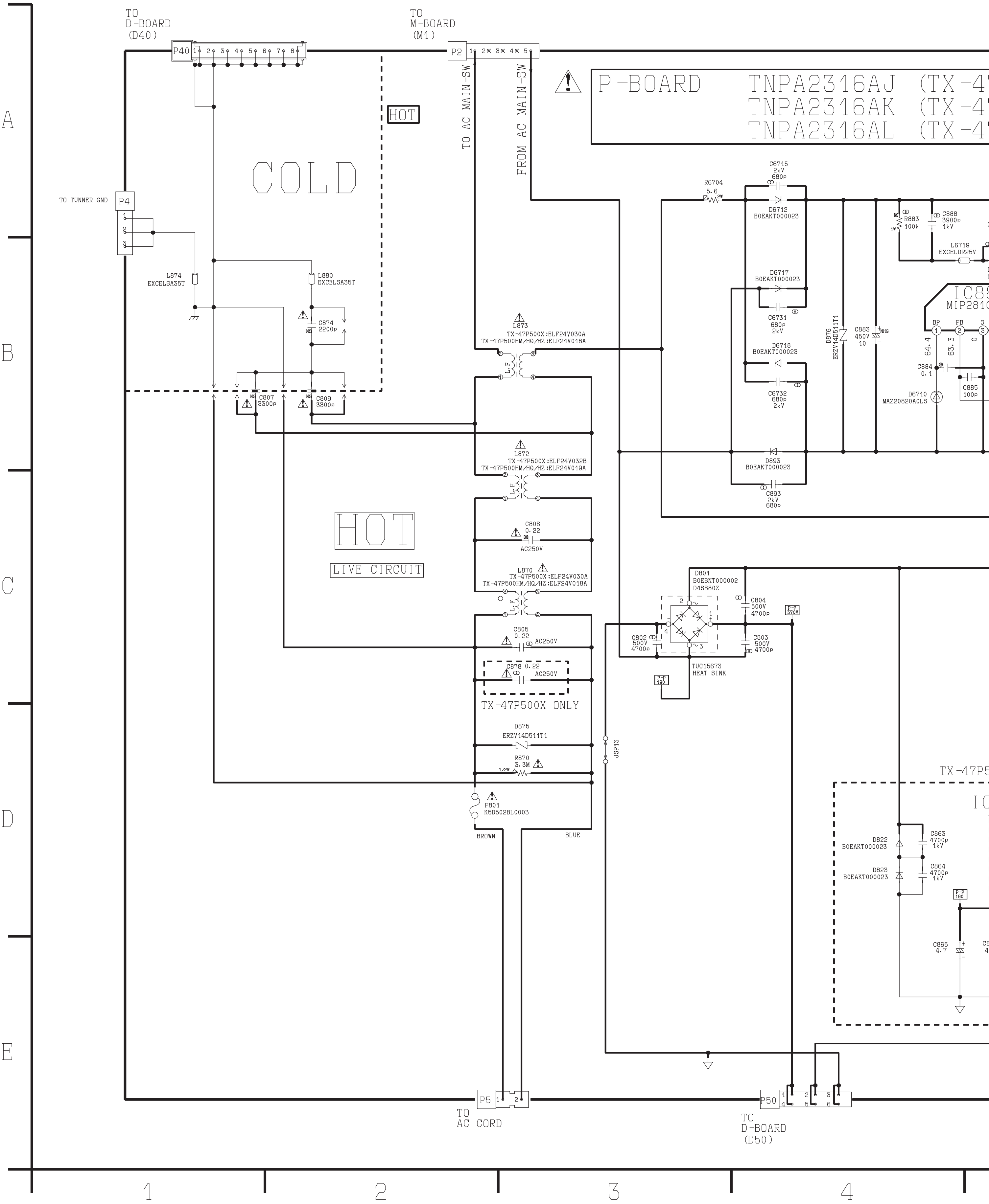

CRT DRIVE
BLUE
CRT (BLUE)
P16LSG03BMB
H
HG
K
G1
G2
FOCUS
EHT
(TO FBT)
JK391
K3B10CA00006
LB20
LB5
FOCUS PACK G2
1KV
JS5
TPLB3
TPLB1
TPLB2
TPLB20
Q394
B1BAAN000025
Q393
2SC3942000LB
Q395
B1BCAN000004
Q396
B1BCAN000004
Q3371
2SB1030AWA
R373
2.7k
R399
56k
L392
15
R391
100
R393
33
1/2W
R394
33
1/2W
R392
100
1/2W
R390
820
L394
10
D393
MA2C165001VT
D394
MA2C165001VT
D395
D396
D397
MA2C165001VT
C397
0.1
D390
MA2C18800E
D388
MA2C18800E
R398
47k
L393
6.8
R372
330
1/2W
D389
MA2C18800E
D387
MA2C18800E
C396
1000p
2kV
R396
JW
D3371
1SS254
R3377
3.9k
R3376
8.2k
C3373
0.01
D3372
1SS254
R3375
3.9k
C3372
100V
22
158.8
216
175.5
175.5
175.0
182.7
173.5
11.7
11.2
169.9
8.7
0.4
8.5
8.0
0.5
5
6
7
8
9

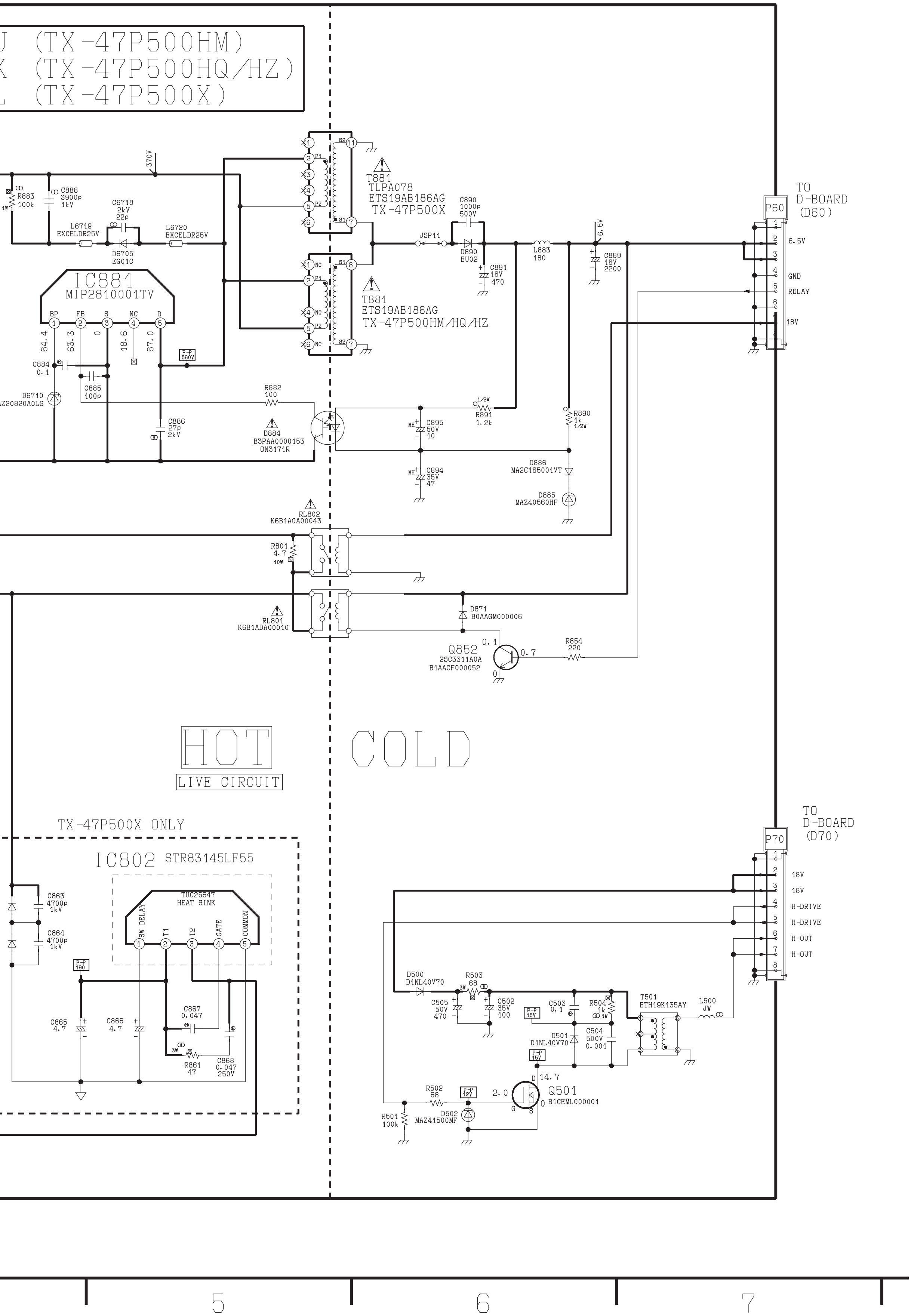
14.13. M-Board Schematic Diagram


A
B
C
D
E
1
2
3
4
M-BOARD TNPA2315
R1043
6.8k
R1044
12k
R1045
22k
R1046
68k
S1003
EVQ23405R
TV/AV
S1004
EVQ23405R
+
S1005
EVQ23405R
-
S1006
EVQ23405R
FUNCTION
S1007
EVQ23405R
STR
REMOCON SENSOR
RM1001
PNA4601M04TV
VOUT
GND
VCC
C1054
100p
R1083
100
C1043
100p
R1042
JW
D1012
MAZ40560MF
D1013
MAZ40560MF
C1041
50V
47
C1040
0.022
R1084
100
TO
A-BOARD
(A26)
A26
M11
GND3
SET 5V
RMCN
STBY 5V
LED
1
2
3
4
5
C1014
16V
100
Q1003
2SC3311A0A
B1AACF000052
R1081
3.3k
R1085
220
R1082
10k
0.6
0
0
L1052
EXCELSA35
J0JYA0000010
D1011
LNG201RFC
STAND BY LED
8V
R2370
100
6.3
Q2361
B1AACF000052
2SC3311A0A
4.7
R2397
1k
5.5
C2385
0.01
D2361
MTZJT-775.6B
C2292
6.3V
2200
C2359
50V
10
IC2304
AN7108
SUB HP AMP
R2359
10k
R2290
5.6k
C2356
0.1
R2291
10k
R2292
2.2k
R2360
JW
C2351
16V
470
C2349
1
R2293
2.2k
C2291
JW
R2361
R2294
R2362
10k
R2296
5.6k
R2295
10k
R2363
10k
C2290
50V
4.7
NP
C2354
50V
4.7
NP
2.5
2.4
2.4
0
2.4
2.4
2.4
2.4
4.3
2.4
2.4
0
4.7
2.4
2.4
1.0
C2293
35V
47
R2380
2.2k
C2294
50V 220
C2355
1
C2295
50V 220
R2381
2.2k
R2333
47k
1%


JK3102
TJB4G636
TO
P-BOARD
(P2)
M1
ESB92S11B
S840
POWER SW
PA2315
04
AMP
COLD
HOT
SUB
MAIN
C2293
35V
47
R2380
2.2k
C2296
16V 100
C2294
50V 220
C2355
1
C2295
50V 220
C2297
4700p
C2382
4700p
R2381
2.2k
C2379 16V
100
C2381
50V
1
R2333
47k
R2297
10k
R2392
10k
JSM24
C3107
560p
C3109
560p
L2527
EXCELSA35
J0JYA0000010
L2278
EXCELSA35
J0JYA0000010
R3285
JW
R3284
JW
R3116
10k
C3104
0.056
C3103
0.056
C3102
0.056
C3101
0.056
L2526
6.8
L2525
6.8
L2524
6.8
L2523
6.8
L3114
L3113
L3112
L3111
4.3
2.4
2.4
0
4.7
2.4
2.4
1.0
M13
SUB HP VOL
PC G
GND
VDD
SUB HP R
GND HP
SUB HP L
TO
A-BOARD
(A8)
M12
S1 (AV3)
C (AV3)
GND (AV3)
V/Y (AV3)
GND (AV3)
R (AV3)
GND (AV3)
L (AV3)
KEY SCAN
R HP
GND HP
L HP
TO
A-BOARD
(A25)
5
6
7

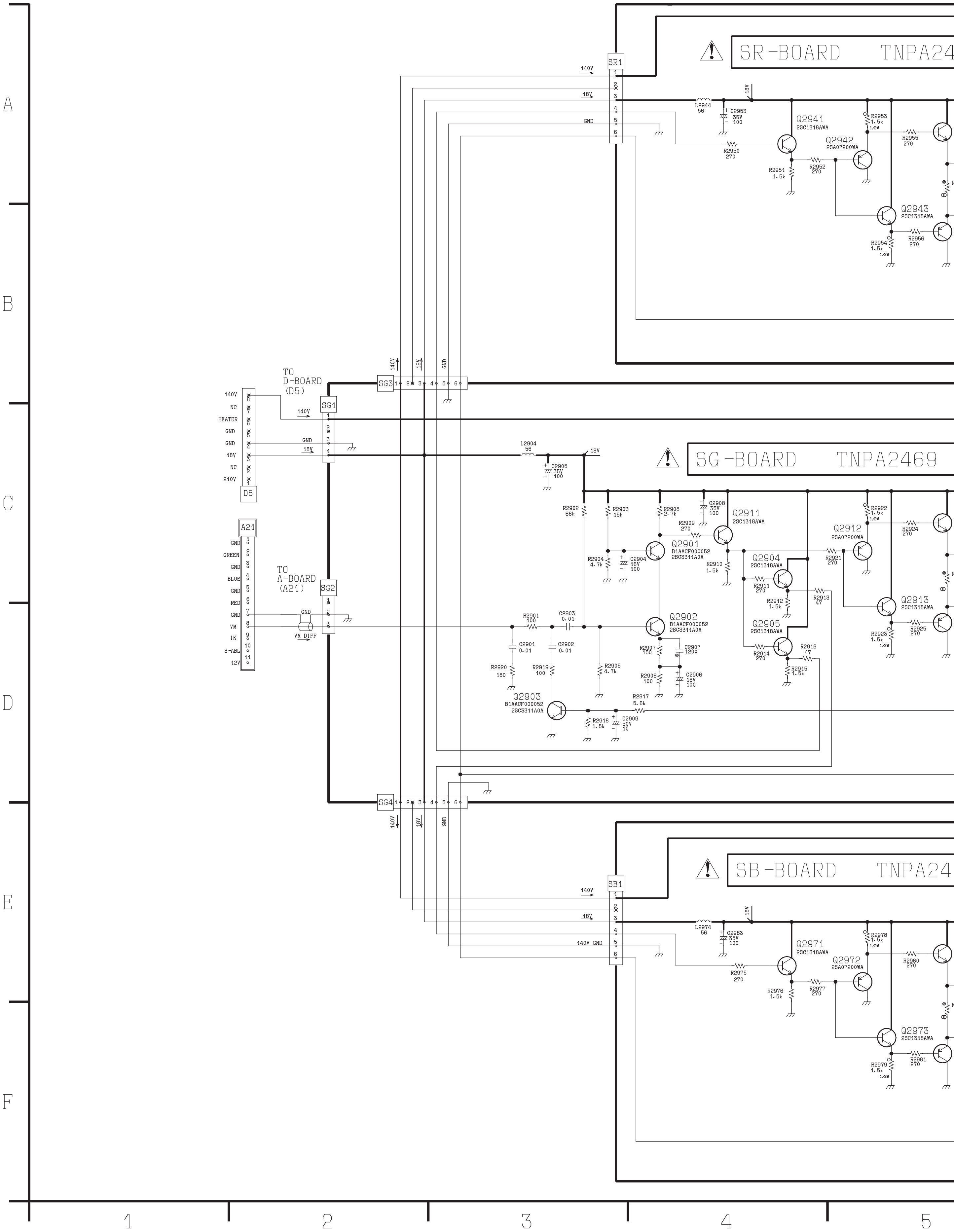
14.14. P-Board Schematic Diagram

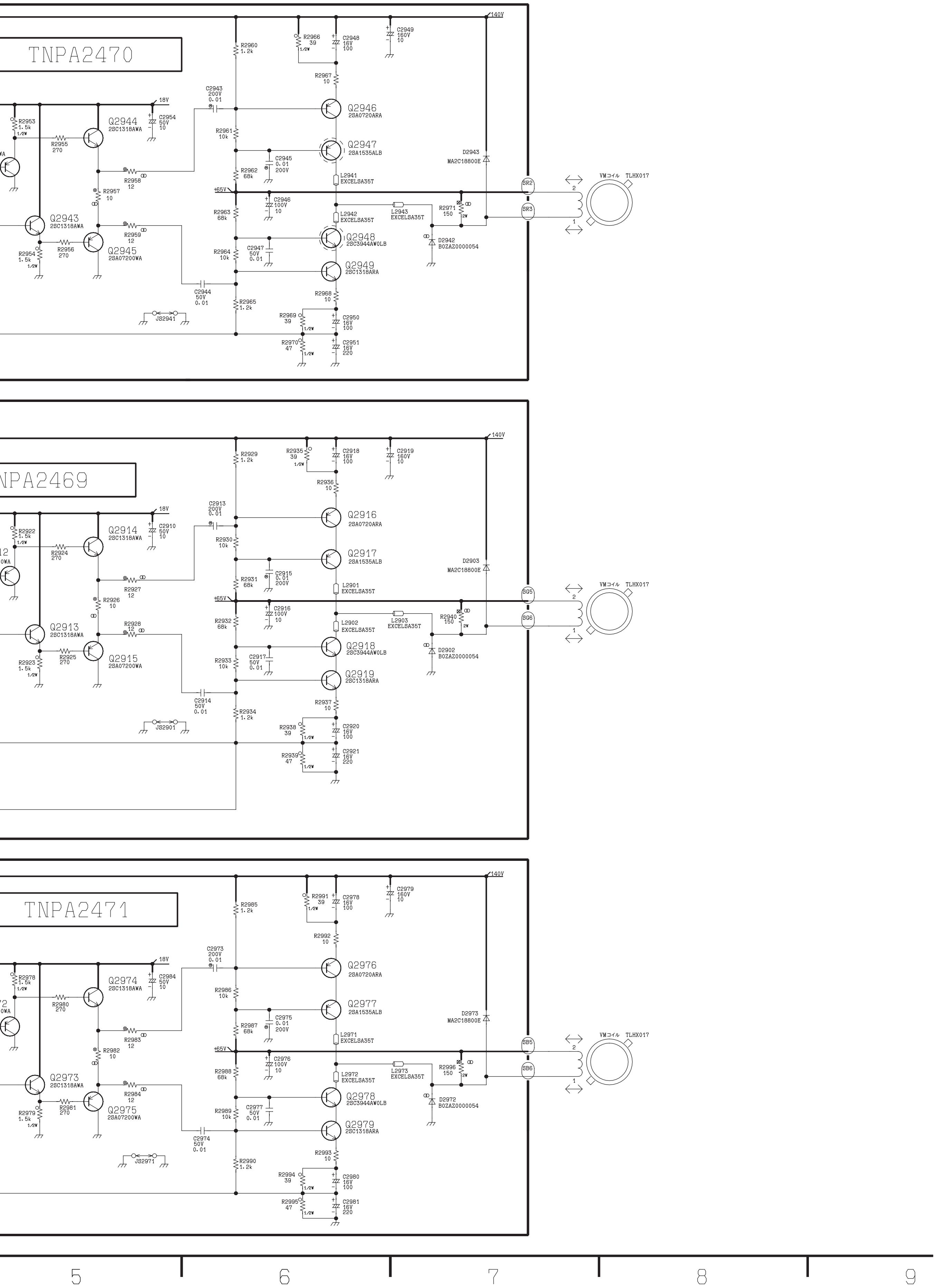

TO
D-BOARD
(D40)
P40
TO
M-BOARD
(M1)
P2
TO AC MAIN-SW
FROM AC MAIN-SW
P-BOARD TNPA2316AJ (TX-4
TNPA2316AK (TX-4
TNPA2316AL (TX-4
HOT
COLD
TO TUNNER GND
P4
L874
EXCELSA35T
L880
EXCELSA35T
C874
2200p
C807
3300p
C809
3300p
L873
TX-47P500X:ELF24V030A
TX-47P500HM/HQ/HZ:ELF24V018A
L872
TX-47P500X:ELF24V032B
TX-47P500HM/HQ/HZ:ELF24V019A
HOT
LIVE CIRCUIT
C806
0.22
AC250V
L870
TX-47P500X:ELF24V030A
TX-47P500HM/HQ/HZ:ELF24V018A
C805
0.22
AC250V
C878 0.22
AC250V
TX-47P500X ONLY
D875
ERZV14D511T1
R870
3.3M
1/2W
F801
K5D502BL0003
BROWN
BLUE
P5
TO
AC CORD
JSP13
R6704
5.6
2W
C6715
2kV
680p
D6712
B0EAKT000023
D6717
B0EAKT000023
C6731
680p
2kV
D6718
B0EAKT000023
C6732
680p
2kV
D893
B0EAKT000023
C893
2kV
680p
D876
ERZV14D511T1
C883
450V
10
R883
100k
1W
C888
3900p
1kV
L6719
EXCELDR25V
IC88
MIP281
BP
FB
S
64.4
63.3
0
C884
0.1
C885
100p
D6710
MAZ20820A0LS
D801
B0EBNT000002
D4SB80Z
C804
500V
4700p
P-P
370V
C802
500V
4700p
C803
500V
4700p
TUC15673
HEAT SINK
P-P
190
TX-47P5
IC
D822
B0EAKT000023
C863
4700p
1kV
D823
B0EAKT000023
C864
4700p
1kV
P-P
190
C865
4.7
P50
TO
D-BOARD
(D50)
A
B
C
D
E
1
2
3
4



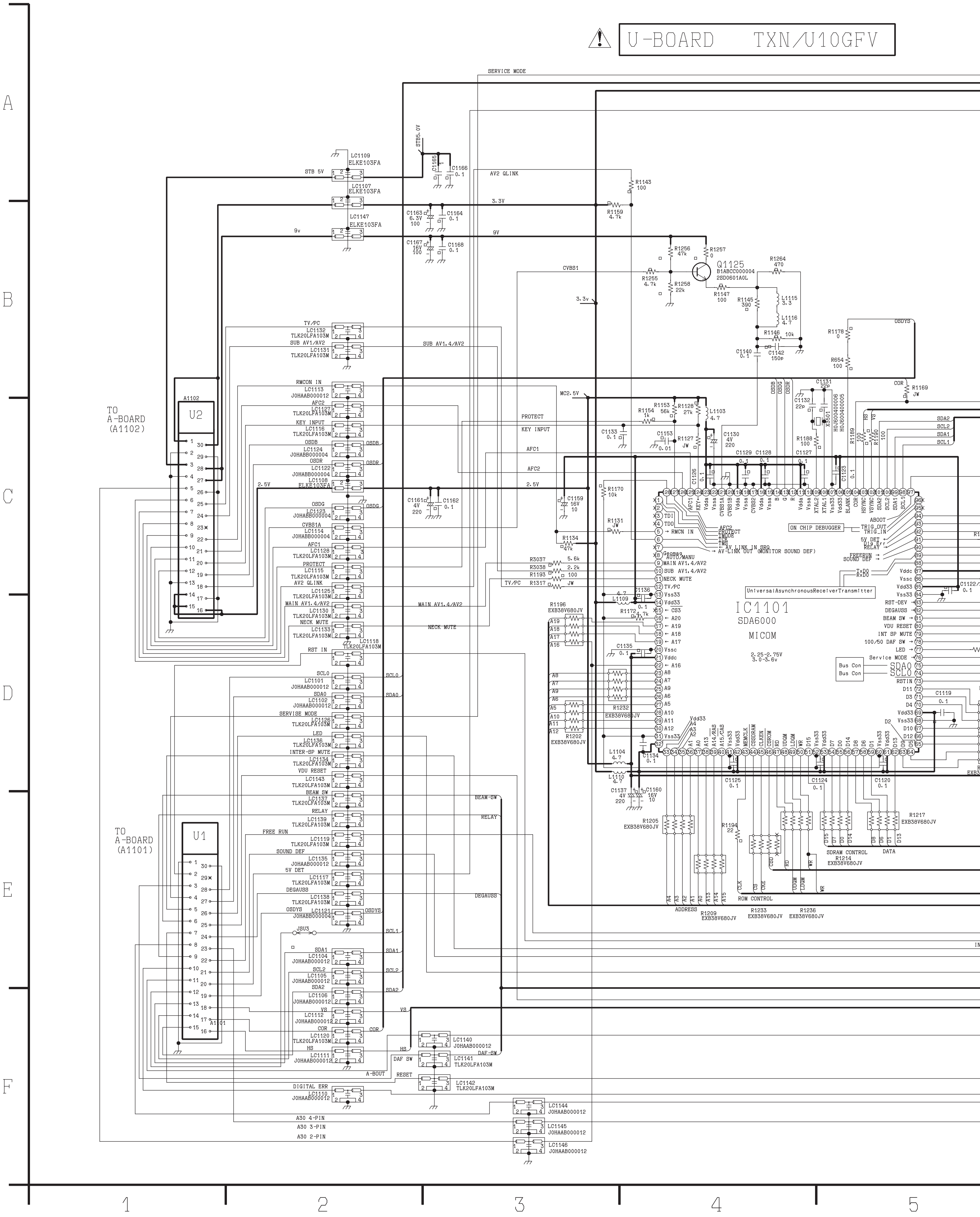
U (TX-47P500HM)
X (TX-47P500HQ/HZ)
L (TX-47P500X)
370V
R883
100k
1W
C888
3900p
1kV
C6718
2kV
22p
L6719
EXCELDR25V
L6720
EXCELDR25V
D6705
EG01C
IC881
MIP2810001TV
BP
FB
S
NC
D
64.4
63.3
0
18.6
67.0
P-P
560V
C884
0.1
C885
100p
D6710
AZ20820A0LS
C886
27p
2kV
R882
100
D884
B3PAA0000153
ON3171R
T881
TLPA078
ETS19AB186AG
TX-47P500X
T881
ETS19AB186AG
TX-47P500HM/HQ/HZ
P1
P2
S1
S2
NC
C890
1000p
500V
JSP11
D890
EU02
C891
16V
470
L883
180
6.5V
C889
16V
2200
TO
D-BOARD
(D60)
P60
6.5V
GND
RELAY
18V
1/2W
R891
1.2k
R890
1k
1/2W
C895
50V
10
C894
35V
47
MH
D886
MA2C165001VT
D885
MAZ40560HF
RL802
K6B1AGA00043
R801
4.7
10W
RL801
K6B1ADA00010
D871
B0AAGM000006
Q852
2SC3311A0A
B1AACF000052
0.1
0.7
0
R854
220
HOT
LIVE CIRCUIT
COLD
TX-47P500X ONLY
IC802 STR83145LF55
TUC25647
HEAT SINK
SW DELAY
T1
T2
GATE
COMMON
C863
4700p
1kV
C864
4700p
1kV
P-P
190
C865
4.7
C866
4.7
C867
0.047
3W
R861
47
C868
0.047
250V
TO
D-BOARD
(D70)
P70
18V
18V
H-DRIVE
H-DRIVE
H-OUT
H-OUT
D500
D1NL40V70
R503
68
3W
C505
50V
470
C502
35V
100
P-P
15V
C503
0.1
R504
1k
1W
T501
ETH19K135AY
L500
JW
D501
D1NL40V70
C504
500V
0.001
P-P
15V
14.7
Q501
B1CEML000001
2.0
0
R502
68
P-P
12V
D502
MAZ41500MF
R501
100k
5
6
7

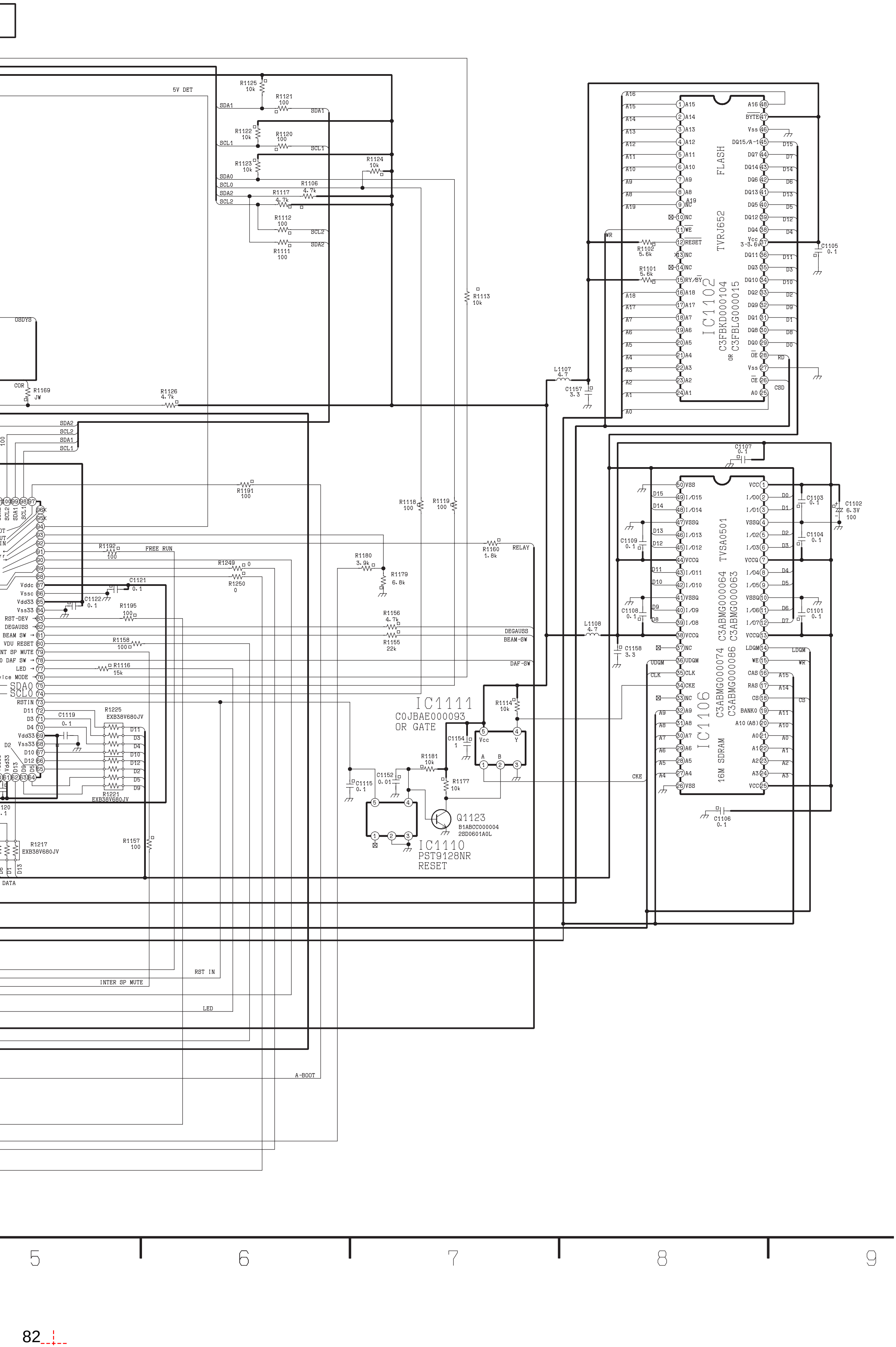
14.15. SR, SG and SB-Board Schematic Diagram

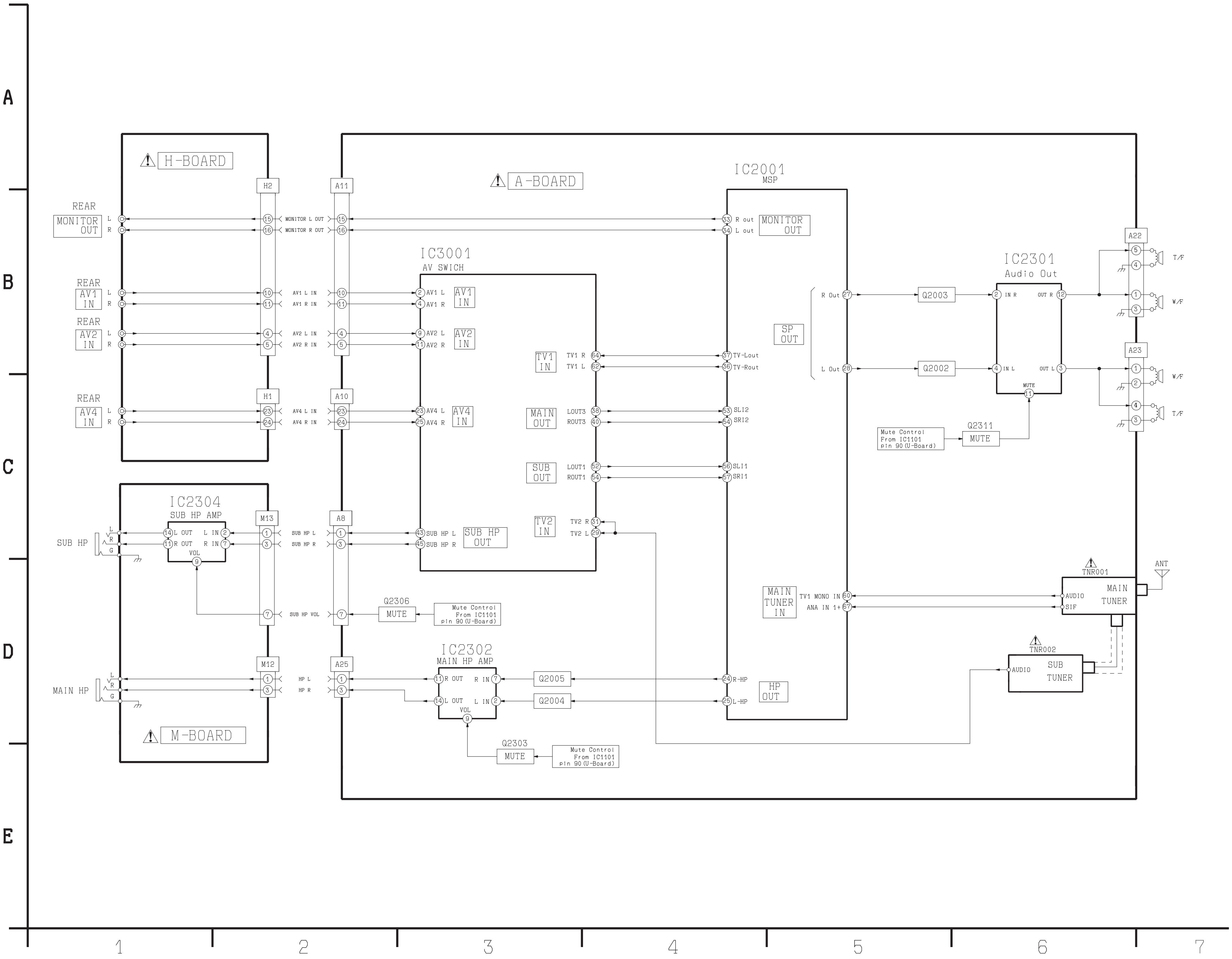

A
B
C
D
E
F
1
2
3
4
5
SR-BOARD TNPA24
SG-BOARD TNPA2469
SB-BOARD TNPA24
SR1
SG1
SG2
SG3
SG4
SB1
D5
A21
TO D-BOARD (D5)
TO A-BOARD (A21)
140V
18V
GND
140V GND
NC
HEATER
210V
GREEN
BLUE
RED
VM
IK
S-ABL
12V
VM DIFF
L2944 56
C2953 35V 100
Q2941 2SC1318AWA
Q2942 2SA07200WA
Q2943 2SC1318AWA
R2950 270
R2951 1.5k
R2952 270
R2953 1.5k 1/2W
R2954 1.5k 1/2W
R2955 270
R2956 270
L2904 56
C2905 35V 100
R2902 68k
R2903 15k
R2908 2.7k
C2908 35V 100
R2909 270
Q2911 2SC1318AWA
Q2901 B1AACF000052 2SC3311A0A
R2904 4.7k
C2904 16V 100
R2910 1.5k
Q2904 2SC1318AWA
R2911 270
R2912 1.5k
R2913 47
Q2912 2SA07200WA
R2921 270
R2922 1.5k 1/2W
R2924 270
Q2913 2SC1318AWA
R2923 1.5k 1/2W
R2925 270
R2901 100
C2903 0.01
Q2902 B1AACF000052 2SC3311A0A
Q2905 2SC1318AWA
R2914 270
R2916 47
R2915 1.5k
C2901 0.01
C2902 0.01
R2907 150
C2907 120p
R2905 4.7k
R2920 180
R2919 100
R2906 100
C2906 16V 100
Q2903 B1AACF000052 2SC3311A0A
R2917 5.6k
R2918 1.8k
C2909 50V 10
L2974 56
C2983 35V 100
Q2971 2SC1318AWA
Q2972 2SA07200WA
Q2973 2SC1318AWA
R2975 270
R2976 1.5k
R2977 270
R2978 1.5k 1/2W
R2979 1.5k 1/2W
R2980 270
R2981 270

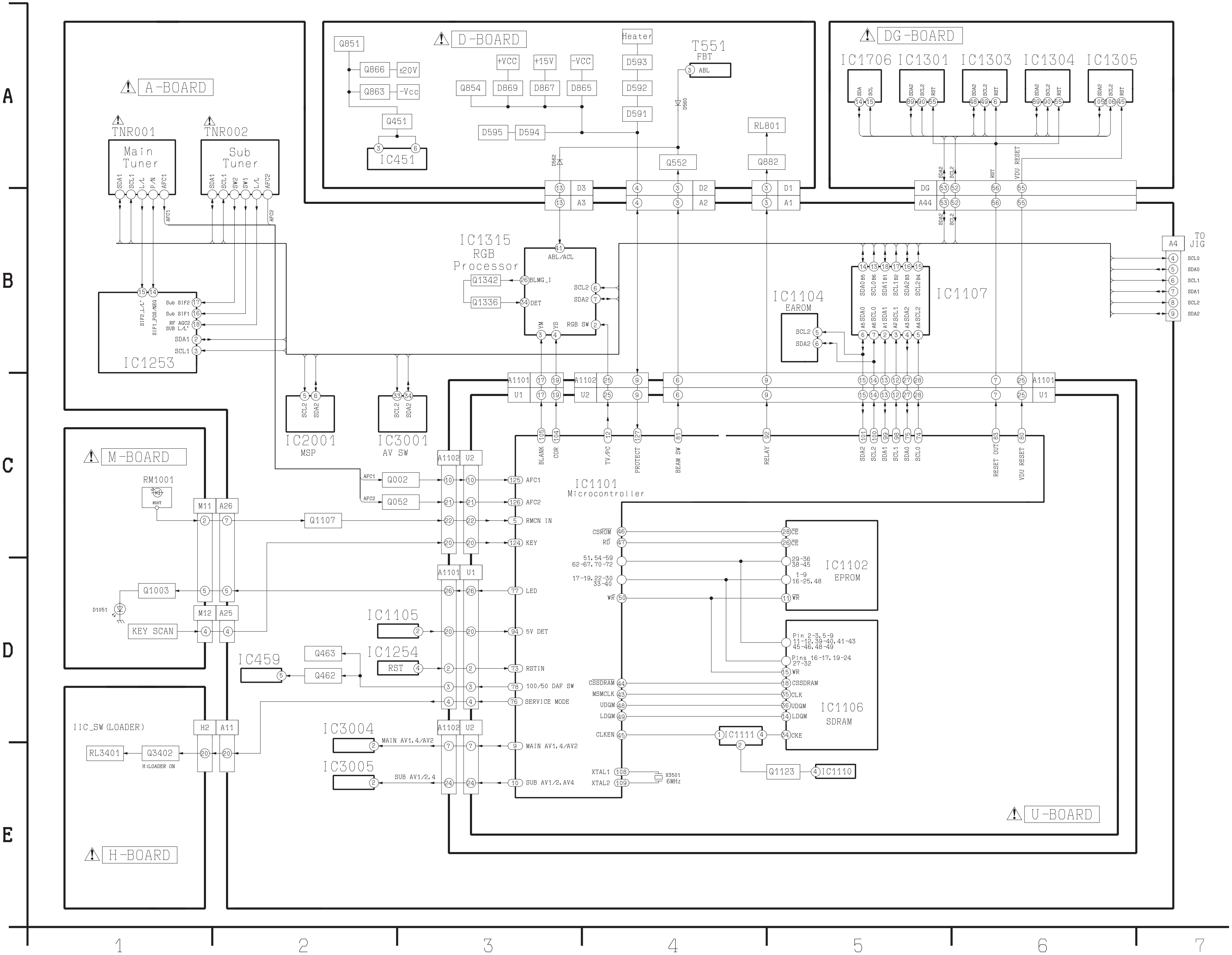

TNPA2470
140V
R2960 1.2k
R2966 39 1/2W
C2948 16V 100
C2949 160V 10
R2967 10
C2943 200V 0.01
18V
R2953 1.5k 1/2W
Q2944 2SC1318AWA
C2954 50V 10
Q2946 2SA0720ARA
R2955 270
R2961 10k
Q2947 2SA1535ALB
D2943 MA2C18800E
C2945 0.01 200V
R2958 12
R2962 68k
L2941 EXCELSA35T
VMコイル TLHX017
SR2
+65V
R2957 10
C2946 100V 10
R2971 150 2W
SR3
Q2943 2SC1318AWA
R2963 68k
L2942 EXCELSA35T
L2943 EXCELSA35T
R2959 12
Q2948 2SC3944AW0LB
D2942 B0ZAZ0000054
R2954 1.5k 1/2W
R2956 270
Q2945 2SA07200WA
R2964 10k
C2947 50V 0.01
Q2949 2SC1318ARA
C2944 50V 0.01
R2968 10
R2965 1.2k
JS2941
R2969 39 1/2W
C2950 16V 100
R2970 47 1/2W
C2951 16V 220
NPA2469
140V
R2929 1.2k
R2935 39 1/2W
C2918 16V 100
C2919 160V 10
R2936 10
C2913 200V 0.01
18V
R2922 1.5k 1/2W
Q2914 2SC1318AWA
C2910 50V 10
Q2916 2SA0720ARA
R2924 270
R2930 10k
Q2917 2SA1535ALB
D2903 MA2C18800E
C2915 0.01 200V
R2927 12
R2931 68k
L2901 EXCELSA35T
VMコイル TLHX017
SG5
+65V
R2926 10
C2916 100V 10
R2940 150 2W
SG6
Q2913 2SC1318AWA
R2928 12
R2932 68k
L2902 EXCELSA35T
L2903 EXCELSA35T
Q2918 2SC3944AW0LB
D2902 B0ZAZ0000054
R2923 1.5k 1/2W
R2925 270
Q2915 2SA07200WA
R2933 10k
C2917 50V 0.01
Q2919 2SC1318ARA
C2914 50V 0.01
R2937 10
R2934 1.2k
JS2901
R2938 39 1/2W
C2920 16V 100
R2939 47 1/2W
C2921 16V 220
TNPA2471
140V
R2985 1.2k
R2991 39 1/2W
C2978 16V 100
C2979 160V 10
R2992 10
C2973 200V 0.01
18V
R2978 1.5k 1/2W
Q2974 2SC1318AWA
C2984 50V 10
Q2976 2SA0720ARA
R2980 270
R2986 10k
Q2977 2SA1535ALB
D2973 MA2C18800E
C2975 0.01 200V
R2983 12
R2987 68k
L2971 EXCELSA35T
VMコイル TLHX017
SB5
+65V
R2982 10
C2976 100V 10
R2996 150 2W
SB6
Q2973 2SC1318AWA
R2984 12
R2988 68k
L2972 EXCELSA35T
L2973 EXCELSA35T
Q2978 2SC3944AW0LB
D2972 B0ZAZ0000054
R2979 1.5k 1/2W
R2981 270
Q2975 2SA07200WA
R2989 10k
C2977 50V 0.01
Q2979 2SC1318ARA
C2974 50V 0.01
R2993 10
R2990 1.2k
JS2971
R2994 39 1/2W
C2980 16V 100
R2995 47 1/2W
C2981 16V 220
5
6
7
8
9

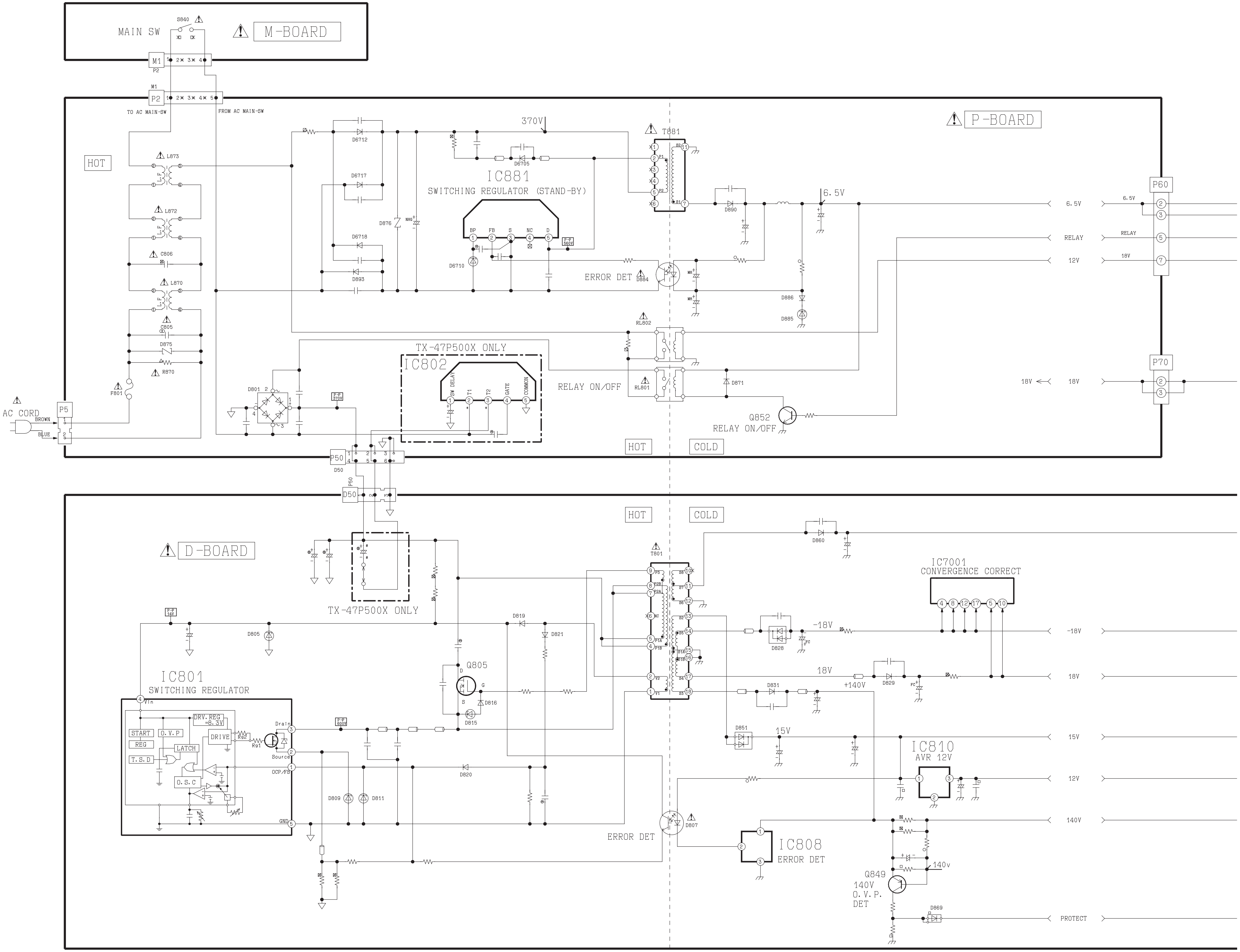
14.16. U-Board Schematic Diagram

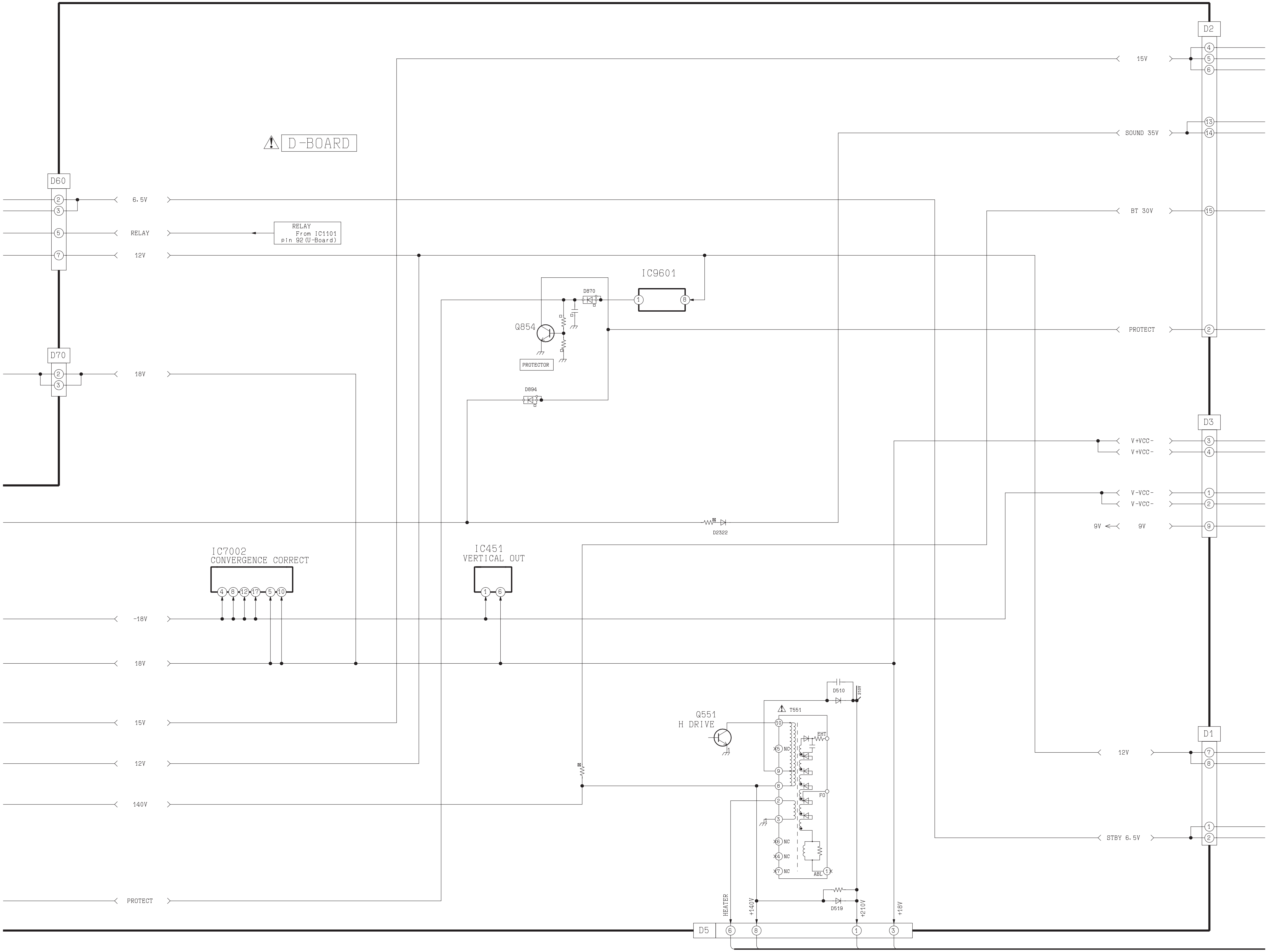

U-BOARD TXN/U10GFV
A
B
C
D
E
F
1
2
3
4
5
TO A-BOARD (A1102)
U2
A1102
TO A-BOARD (A1101)
U1
A1101
SERVICE MODE
STB 5V
STB5.0V
3.3V
9V
AV2 QLINK
CVBS1
LC1109 ELKE103FA
LC1107 ELKE103FA
LC1147 ELKE103FA
C1163 6.3V 100
C1164 0.1
C1165
C1166 0.1
C1167 16V 100
C1168 0.1
R1143 100
R1159 4.7k
R1256 47k
R1257 0
R1255 4.7k
R1258 22k
Q1125 B1ABCC000004 2SD0601A0L
R1264 470
R1147 100
R1145 390
L1115 3.3
L1116 4.7
R1146 10k
C1140 0.1
C1142 150p
R1178 0
R654 100
OSDYS
TV/PC
LC1132 TLK20LFA103M
SUB AV1/AV2
LC1131 TLK20LFA103M
SUB AV1.4/AV2
RMCON IN
LC1113 J0HAAB000012
AFC2
LC1127 TLK20LFA103M
KEY INPUT
LC1116 TLK20LFA103M
OSDB
LC1124 J0HABB000004
OSDR
LC1122 J0HABB000004
LC1108 ELKE103FA
2.5V
OSDG
LC1123 J0HABB000004
CVBS1A
LC1114 J0HABB000004
AFC1
LC1128 TLK20LFA103M
PROTECT
LC1115 TLK20LFA103M
AV2 QLINK
LC1125 TLK20LFA103M
MAIN AV1.4/AV2
LC1130 TLK20LFA103M
NECK MUTE
LC1133 TLK20LFA103M
LC1118 TLK20LFA103M
RST IN
SCL0
LC1101 J0HAAB000012
SDA0
LC1102 J0HAAB000012
SERVISE MODE
LC1126 TLK20LFA103M
LED
LC1136 TLK20LFA103M
INTER-SP MUTE
LC1134 TLK20LFA103M
VDU RESET
LC1143 TLK20LFA103M
BEAM SW
LC1137 TLK20LFA103M
RELAY
LC1139 TLK20LFA103M
FREE RUN
LC1119 TLK20LFA103M
SOUND DEF
LC1135 J0HAAB000012
5V DET
LC1117 TLK20LFA103M
DEGAUSS
LC1138 TLK20LFA103M
OSDYS
LC1121 J0HABB000004
JSU3
SCL1
SDA1
LC1104 J0HAAB000012
SCL2
LC1105 J0HAAB000012
SDA2
LC1106 J0HAAB000012
VS
LC1112 J0HAAB000012
COR
LC1120 TLK20LFA103M
HS
LC1111 J0HAAB000012
LC1140 J0HAAB000012
DAF SW
LC1141 TLK20LFA103M
A-BOUT
RESET
LC1142 TLK20LFA103M
DIGITAL ERR
LC1110 J0HAAB000012
LC1144 J0HAAB000012
LC1145 J0HAAB000012
LC1146 J0HAAB000012
A30 4-PIN
A30 3-PIN
A30 2-PIN
MC2.5V
R1153 56k
R1128 27k
R1154 1k
L1103 4.7
C1133 0.1
C1153 0.01
R1127 JW
C1130 4V 220
C1129 0.1
C1128 0.1
C1127 0.1
C1126 0.1
C1123 0.1
C1131 22p
C1132 22p
X1501
H0J600400006
H0J600400005
R1188 100
R1189 100
R1190 100
COR
R1169 JW
SDA2
SCL2
SDA1
SCL1
C1161 4V 220
C1162 0.1
C1159 16V 10
R1170 10k
R1131 JW
R1134 47k
R3037 5.6k
R3038 2.2k
R1193 100
R1317 JW
L1109 4.7
C1136 0.1
R1172 4.7k
R1196 EXB38V680JV
C1135 0.1
R1232 EXB38V680JV
R1202 EXB38V680JV
L1104 4.7
L1110 4.7
C1134 0.1
C1137 4V 220
C1160 16V 10
C1125 0.1
C1124 0.1
C1120 0.1
C1119 0.1
C1122 0.1
R1205 EXB38V680JV
R1194 22
R1217 EXB38V680JV
R1214 EXB38V680JV
R1209 EXB38V680JV
R1233 EXB38V680JV
R1236 EXB38V680JV
ADDRESS
ROM CONTROL
SDRAM CONTROL
DATA
IC1101
SDA6000
MICOM
2.25-2.75V
3.0-3.6V
ON CHIP DEBUGGER
UniversalAsynchronousReceiverTransmitter
Bus Con
TDI
TDO
RMCON IN
AFC2
PROTECT
MODE
AV LINK IN SRQ
AV-LINK OUT (MONITOR SOUND DEF)
AUTO/MANU
MAIN AV1.4/AV2
SUB AV1.4/AV2
NECK MUTE
TV/PC
Vss33
Vdd33
CS3
A20
A19
A18
A17
Vssc
Vddc
A16
A8
A7
A9
A6
A5
A10
A11
A12
ABOOT
TRIG_OUT
TRIG_IN
5V DET
RELAY
FREERUN
SOUND DEF
TxD0
RxD0
Vddc
Vssc
RST-DEV
DEGAUSS
BEAM SW
VDU RESET
INT SP MUTE
100/50 DAF SW
LED
Service MODE
SDA0
SCL0
RSTIN
Vdd33
Vss33
D11
D3
D4
D10
D12
D5
D2
AFC1
KEY
Vdda
Vssa
CVBS1A
CVBS1B
CVBS2
XTAL2
XTAL1
BLANK
COR
HSYNC
VSYNC
EXB3

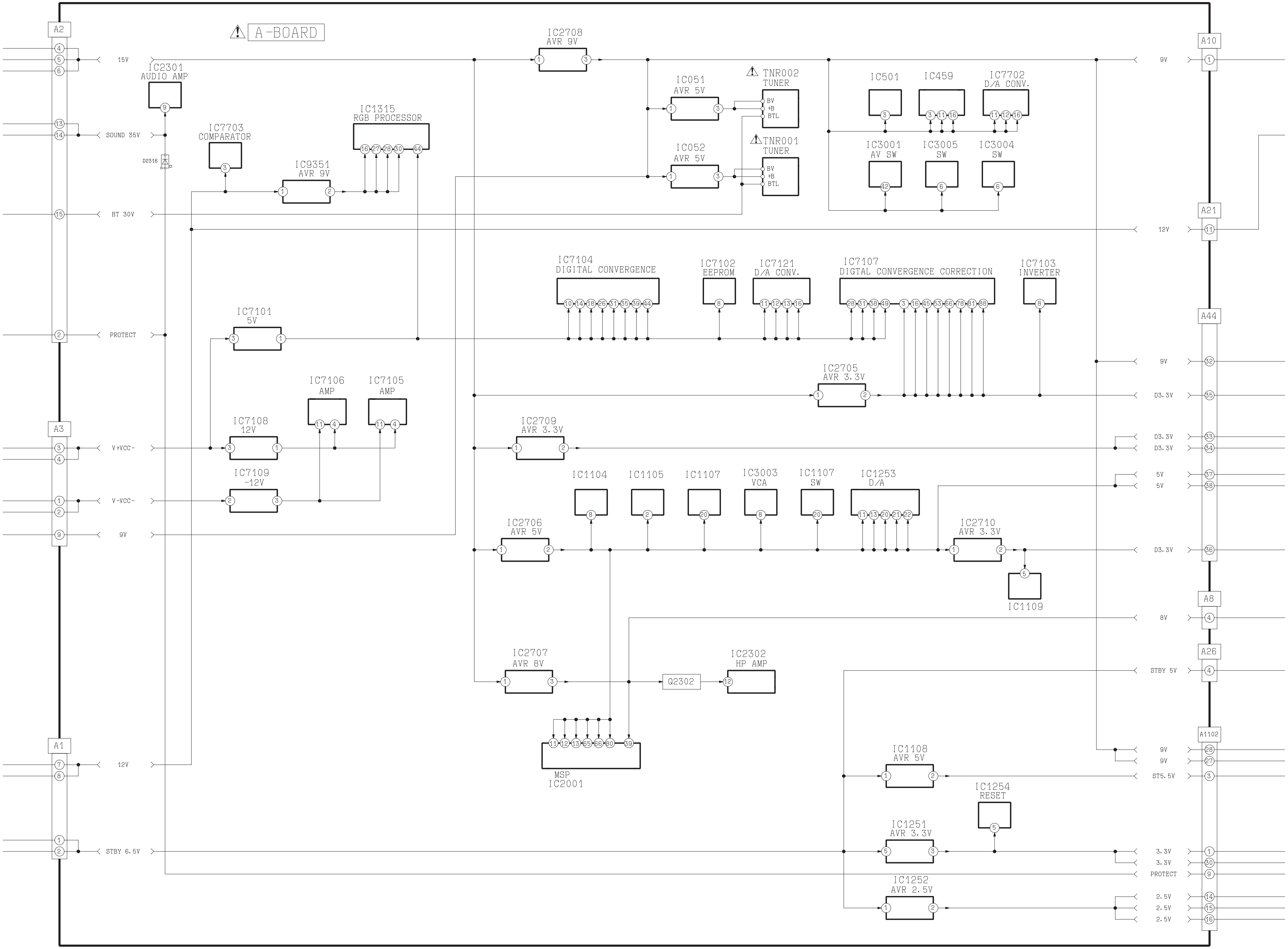

IC1102
FLASH
TVRJ652
C3FBKD000104
OR C3FBLG000015
IC1106
16M SDRAM
TVSA0501
C3ABMG000064 C3ABMG000063
C3ABMG000074 C3ABMG000086
IC1111
C0JBAE000093
OR GATE
IC1110
PST9128NR
RESET
Q1123
B1ABCC000004
2SD0601A0L
5V DET
SDA0
SCL0
SDA1
SCL1
SDA2
SCL2
R1125 10k
R1121 100
R1122 10k
R1120 100
R1123 10k
R1124 10k
R1106 4.7k
R1117 4.7k
R1112 100
R1111 100
R1113 10k
R1169 JW
R1126 4.7k
R1191 100
R1192 100
FREE RUN
R1160 1.8k
RELAY
R1180 3.9k
R1179 6.8k
R1116 100
R1119 100
R1249 0
R1250 0
C1121 0.1
C1122 0.1
R1195 100
R1156 4.7k
R1155 22k
DEGAUSS
BEAM-SW
DAF-SW
R1158 100
R1116 15k
R1114 10k
C1154 1
R1181 10k
R1177 10k
C1152 0.01
C1115 0.1
C1119 0.1
R1225 EXB38V680JV
R1221 EXB38V680JV
R1217 EXB38V680JV
R1157 100
L1107 4.7
C1157 3.3
L1108 4.7
C1158 3.3
R1102 5.6k
R1101 5.6k
C1105 0.1
C1107 0.1
C1103 0.1
C1102 6.3V 100
C1104 0.1
C1109 0.1
C1108 0.1
C1101 0.1
C1106 0.1
OSDYS
COR
RST-DEV
DEGAUSS
BEAM SW
VDU RESET
DAF SW
LED
RSTIN
Vddc
Vssc
Vdd33
Vss33
RST IN
INTER SP MUTE
LED
A-BOOT
DATA
WR
RD
CSD
CS
CKE
CLK
UDQM
LDQM
5
6
7
8
9

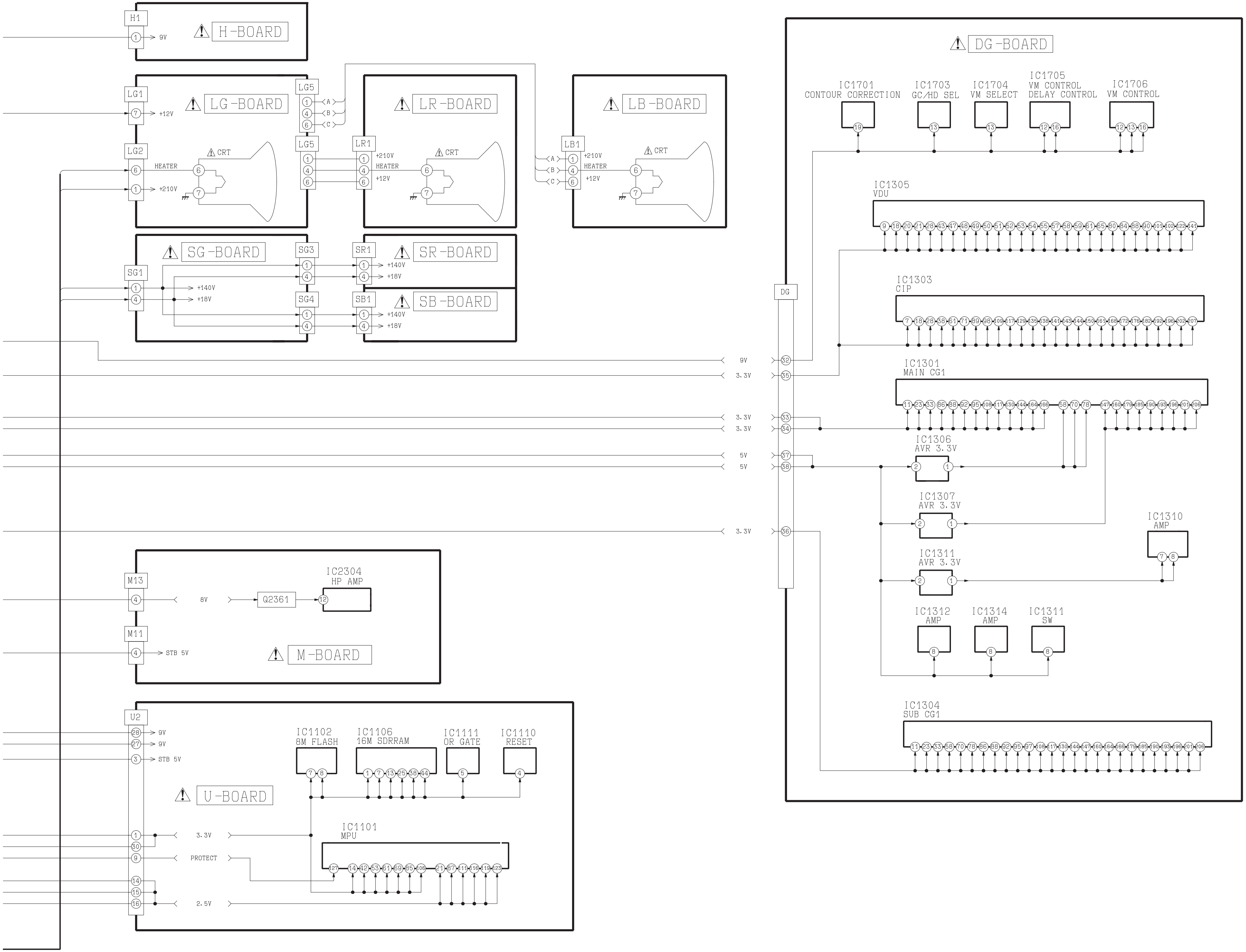

H-BOARD
A-BOARD
M-BOARD
H2
H1
M13
M12
A11
A10
A8
A25
A22
A23
REAR MONITOR OUT
REAR AV1 IN
REAR AV2 IN
REAR AV4 IN
SUB HP
MAIN HP
MONITOR L OUT
MONITOR R OUT
AV1 L IN
AV1 R IN
AV2 L IN
AV2 R IN
AV4 L IN
AV4 R IN
SUB HP L
SUB HP R
SUB HP VOL
HP L
HP R
IC3001
AV SWICH
AV1 IN
AV2 IN
AV4 IN
TV1 IN
MAIN OUT
SUB OUT
TV2 IN
SUB HP OUT
IC2001
MSP
R out
L out
MONITOR OUT
SP OUT
R Out
L Out
TV-Lout
TV-Rout
SLI2
SRI2
SLI1
SRI1
MAIN TUNER IN
TV1 MONO IN
ANA IN 1+
R-HP
L-HP
HP OUT
IC2301
Audio Out
IN R
IN L
OUT R
OUT L
MUTE
Q2003
Q2002
Q2311
Mute Control From IC1101 pin 90 (U-Board)
T/F
W/F
IC2304
SUB HP AMP
L OUT
R OUT
L IN
R IN
VOL
Q2306
MUTE
IC2302
MAIN HP AMP
Q2005
Q2004
Q2303
TNR001
MAIN TUNER
AUDIO
SIF
ANT
TNR002
SUB TUNER
A
B
C
D
E
1
2
3
4
5
6
7

A-BOARD
D-BOARD
DG-BOARD
M-BOARD
H-BOARD
U-BOARD
TNR001 Main Tuner
TNR002 Sub Tuner
SDA1 SCL1 L/L' P/N AFC1
SDA1 SCL1 SW2 SW1 L/L' AFC2
IC1253
Sub SIF2
Sub SIF1
RF AGC2 SUB L/L'
SDA1
SCL1
SIF2_L/L'
SIF1_POS/NEG
IC2001 MSP
IC3001 AV SW
Q851
Q866
±20V
Q863
-Vcc
Q451
IC451
+VCC
+15V
-VCC
Q854
D869
D867
D865
D595
D594
Heater
D593
D592
D591
T551 FBT
ABL
D560
D562
Q552
RL801
Q882
D3 A3
D2 A2
D1 A1
IC1706
IC1301
IC1303
IC1304
IC1305
SDA SCL RST
DG A44
SDA2 SCL2 RST VDU RESET
IC1315 RGB Processor
ABL/ACL
BLMG_I
DET
Q1342
Q1336
SCL2
SDA2
RGB SW
YM YS
IC1104 EAROM
IC1107
SDA0 B5 SCL0 B6 SDA1 B1 SCL1 B2 SDA2 B3 SCL2 B4
A5 SDA0 A6 SCL0 A1 SDA1 A2 SCL1 A3 SDA2 A4 SCL2
A4 TO JIG
SCL0 SDA0 SCL1 SDA1 SCL2 SDA2
A1101 U1
A1102 U2
BLANK
COR
TV/PC
PROTECT
BEAM SW
RELAY
SDA2 SCL2 SDA1 SCL1 SDA0 SCL0
RESET OUT
VDU RESET
IC1101 Microcontroller
AFC1
AFC2
Q002
Q052
RMCN IN
KEY
LED
5V DET
RSTIN
100/50 DAF SW
SERVICE MODE
MAIN AV1.4/AV2
SUB AV1/2.4
RM1001
ROUT
M11 A26
Q1107
Q1003
D1051
M12 A25
KEY SCAN
IC1105
IC1254
RST
IC459
Q463
Q462
IIC_SW (LOADER)
H2 A11
RL3401
Q3402
H:LOADER ON
IC3004
IC3005
CSROM
RD
51.54-59 62-67.70-72
17-19.22-30 33-40
WR
CSSDRAM
MSMCLK
UDQM
LDQM
CLKEN
XTAL1
XTAL2
X3501 6MHz
IC1102 EPROM
CE
29-36 38-45
1-9 16-25.48
Pin 2-3.5-9 11-12.39-40.41-43 45-46.48-49
Pins 16-17.19-24 27-32
IC1106 SDRAM
CSSDRAM
CLK
CKE
IC1111
Q1123
IC1110
A
B
C
D
E
1
2
3
4
5
6
7

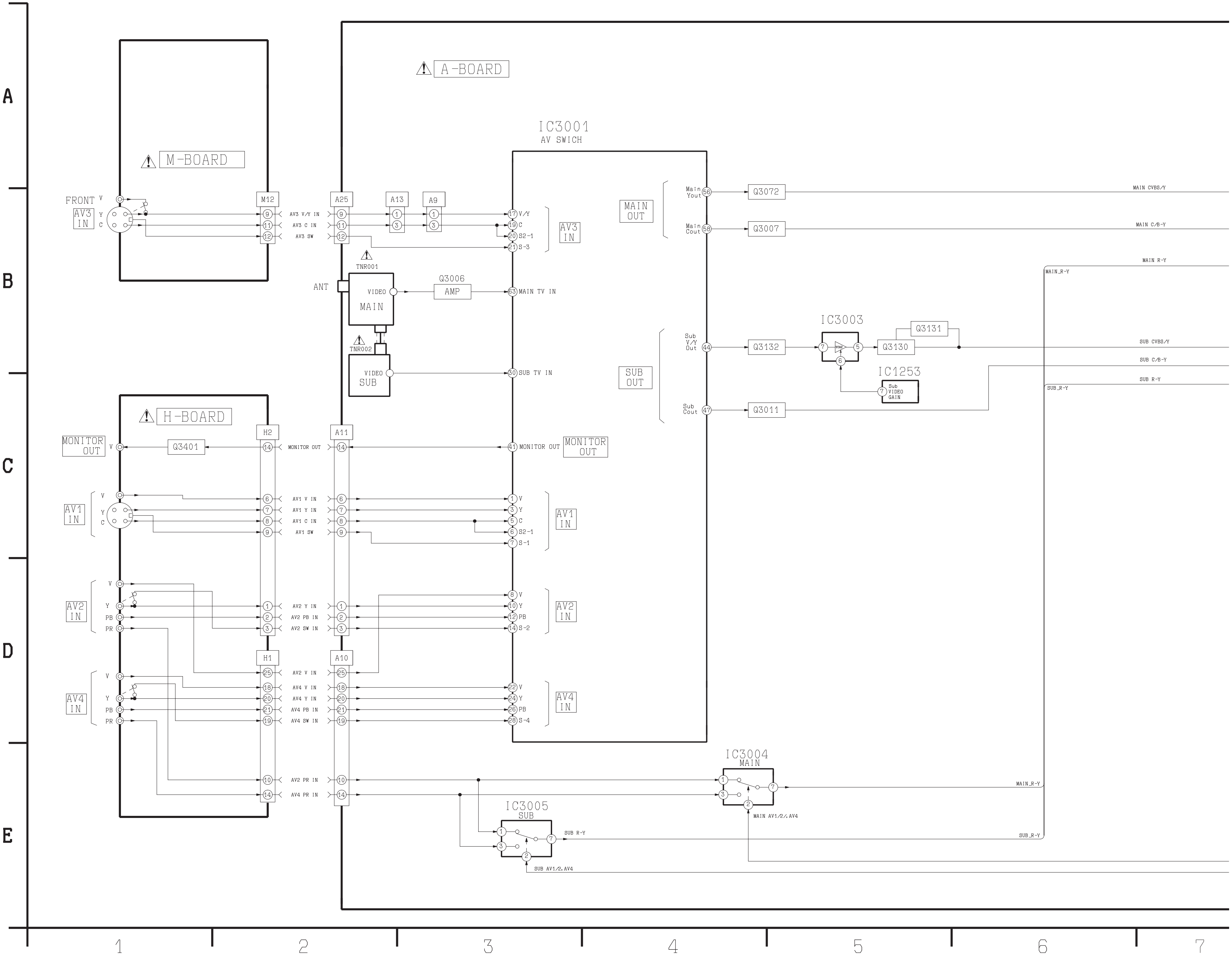

MAIN SW
S840
M-BOARD
M1
P2
TO AC MAIN-SW
FROM AC MAIN-SW
P-BOARD
HOT
L873
L872
C806
L870
C805
D875
R870
F801
AC CORD
BROWN
BLUE
P5
370V
D6712
D6717
D6718
D893
D876
D6705
IC881
SWITCHING REGULATOR (STAND-BY)
BP
FB
S
NC
D
D6710
ERROR DET
D884
T881
6.5V
D890
D886
D885
P60
6.5V
RELAY
12V
18V
RL802
RL801
RELAY ON/OFF
D871
Q852
RELAY ON/OFF
P70
18V
TX-47P500X ONLY
IC802
SW DELAY
T1
T2
GATE
COMMON
D801
P50
D50
HOT
COLD
D-BOARD
TX-47P500X ONLY
T801
D860
IC7001
CONVERGENCE CORRECT
D819
D821
D805
Q805
D816
D815
IC801
SWITCHING REGULATOR
Vin
START
REG
O.V.P
DRV.REG
8.3V
DRIVE
LATCH
T.S.D
O.S.C
R92
Rg1
Drain
Source
OCP/FB
GND
D820
D809
D811
D828
-18V
-18V
18V
+140V
D829
18V
D831
D851
15V
15V
IC810
AVR 12V
12V
140V
ERROR DET
D807
IC808
ERROR DET
Q849
140V
O.V.P.
DET
140v
D869
PROTECT

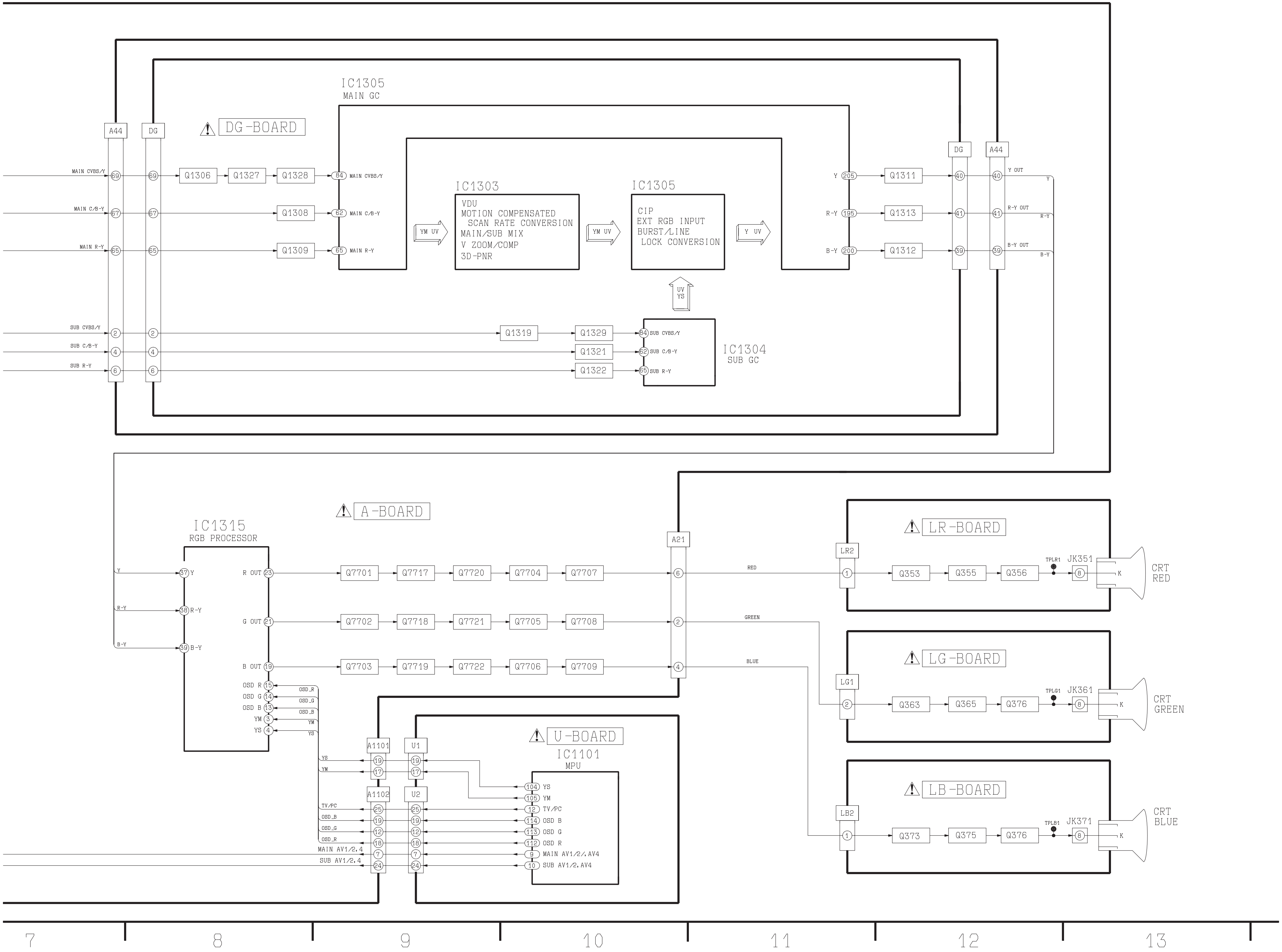

D-BOARD
D60
6.5V
RELAY
RELAY From IC1101 pin 92 (U-Board)
12V
D70
18V
IC9601
D870
Q854
PROTECTOR
D894
D2
15V
SOUND 35V
BT 30V
PROTECT
D3
V+VCC-
V+VCC-
V-VCC-
V-VCC-
9V
9V
D2322
IC7002
CONVERGENCE CORRECT
IC451
VERTICAL OUT
-18V
18V
15V
12V
140V
PROTECT
Q551
H DRIVE
T551
D510
210V
EHT
NC
FO
ABL
D519
HEATER
+140V
+210V
+18V
D5
D1
12V
STBY 6.5V


A-BOARD
A2
15V
SOUND 35V
BT 30V
PROTECT
A3
V+VCC-
V-VCC-
9V
A1
12V
STBY 6.5V
D2316
IC2301
AUDIO AMP
IC7703
COMPARATOR
IC9351
AVR 9V
IC1315
RGB PROCESSOR
IC2708
AVR 9V
IC051
AVR 5V
IC052
AVR 5V
TNR002
TUNER
TNR001
TUNER
BV
+B
BTL
IC501
IC459
IC7702
D/A CONV.
IC3001
AV SW
IC3005
SW
IC3004
SW
IC7104
DIGITAL CONVERGENCE
IC7102
EEPROM
IC7121
D/A CONV.
IC7107
DIGTAL CONVERGENCE CORRECTION
IC7103
INVERTER
IC7101
5V
IC2705
AVR 3.3V
IC7106
AMP
IC7105
AMP
IC7108
12V
IC7109
-12V
IC2709
AVR 3.3V
IC1104
IC1105
IC1107
IC3003
VCA
IC1107
SW
IC1253
D/A
IC2706
AVR 5V
IC2710
AVR 3.3V
IC1109
IC2707
AVR 8V
Q2302
IC2302
HP AMP
MSP
IC2001
IC1108
AVR 5V
IC1254
RESET
IC1251
AVR 3.3V
IC1252
AVR 2.5V
A10
9V
A21
12V
A44
9V
D3.3V
D3.3V
D3.3V
5V
5V
D3.3V
A8
8V
A26
STBY 5V
A1102
9V
9V
ST5.5V
3.3V
3.3V
PROTECT
2.5V
2.5V
2.5V



H-BOARD
H1
9V
LG-BOARD
LG1
+12V
LG2
HEATER
+210V
CRT
LG5
A
B
C
LR-BOARD
LR1
+210V
HEATER
+12V
CRT
LB-BOARD
LB1
+210V
HEATER
+12V
CRT
SG-BOARD
SG1
SG3
SG4
+140V
+18V
SR-BOARD
SR1
+140V
+18V
SB-BOARD
SB1
+140V
+18V
M-BOARD
M13
M11
8V
Q2361
IC2304
HP AMP
STB 5V
U-BOARD
U2
9V
9V
STB 5V
3.3V
PROTECT
2.5V
IC1102
8M FLASH
IC1106
16M SDRRAM
IC1111
OR GATE
IC1110
RESET
IC1101
MPU
DG-BOARD
DG
9V
3.3V
3.3V
3.3V
5V
5V
3.3V
IC1701
CONTOUR CORRECTION
IC1703
GC/HD SEL
IC1704
VM SELECT
IC1705
VM CONTROL
DELAY CONTROL
IC1706
VM CONTROL
IC1305
VDU
IC1303
CIP
IC1301
MAIN CG1
IC1306
AVR 3.3V
IC1307
AVR 3.3V
IC1311
AVR 3.3V
IC1310
AMP
IC1312
AMP
IC1314
AMP
IC1311
SW
IC1304
SUB CG1


A
B
C
D
E
1
2
3
4
5
6
7
A-BOARD
M-BOARD
H-BOARD
IC3001
AV SWICH
FRONT
AV3 IN
V
Y
C
M12
A25
A13
A9
AV3 V/Y IN
AV3 C IN
AV3 SW
V/Y
C
S2-1
S-3
AV3 IN
TNR001
ANT
VIDEO
MAIN
Q3006
AMP
MAIN TV IN
TNR002
VIDEO
SUB
SUB TV IN
MAIN OUT
Main Yout
Main Cout
Q3072
Q3007
MAIN CVBS/Y
MAIN C/B-Y
MAIN R-Y
MAIN_R-Y
SUB OUT
Sub V/Y Out
Sub Cout
Q3132
IC3003
VCA2
Q3130
Q3131
IC1253
Sub VIDEO GAIN
Q3011
SUB CVBS/Y
SUB C/B-Y
SUB R-Y
SUB_R-Y
MONITOR OUT
Q3401
H2
A11
MONITOR OUT
MONITOR OUT
AV1 IN
AV1 V IN
AV1 Y IN
AV1 C IN
AV1 SW
S2-1
S-1
AV2 IN
V
Y
PB
PR
AV2 Y IN
AV2 PB IN
AV2 SW IN
S-2
H1
A10
AV2 V IN
AV4 IN
AV4 V IN
AV4 Y IN
AV4 PB IN
AV4 SW IN
S-4
AV2 PR IN
AV4 PR IN
IC3004
MAIN
MAIN AV1/2/, AV4
MAIN_R-Y
IC3005
SUB
SUB R-Y
SUB AV1/2, AV4
SUB_R-Y


DG-BOARD
IC1305
MAIN GC
A44
DG
MAIN CVBS/Y
MAIN C/B-Y
MAIN R-Y
69
67
65
Q1306
Q1327
Q1328
Q1308
Q1309
84 MAIN CVBS/Y
62 MAIN C/B-Y
65 MAIN R-Y
IC1303
VDU
MOTION COMPENSATED
SCAN RATE CONVERSION
MAIN/SUB MIX
V ZOOM/COMP
3D-PNR
YM UV
IC1305
CIP
EXT RGB INPUT
BURST/LINE
LOCK CONVERSION
Y UV
UV YS
Y 205
R-Y 195
B-Y 200
Q1311
Q1313
Q1312
40
41
39
Y OUT
R-Y OUT
B-Y OUT
Y
R-Y
B-Y
SUB CVBS/Y
SUB C/B-Y
SUB R-Y
2
4
6
Q1319
Q1329
Q1321
Q1322
84 SUB CVBS/Y
62 SUB C/B-Y
55 SUB R-Y
IC1304
SUB GC
A-BOARD
IC1315
RGB PROCESSOR
37 Y
58 R-Y
59 B-Y
R OUT 23
G OUT 21
B OUT 19
OSD R 15
OSD G 14
OSD B 13
YM 3
YS 4
OSD_R
OSD_G
OSD_B
YM
YS
Q7701
Q7717
Q7720
Q7704
Q7707
Q7702
Q7718
Q7721
Q7705
Q7708
Q7703
Q7719
Q7722
Q7706
Q7709
A21
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RED
GREEN
BLUE
U-BOARD
IC1101
MPU
A1101
U1
19
17
A1102
U2
25
19
12
18
7
24
TV/PC
OSD_B
OSD_G
OSD_R
MAIN AV1/2,4
SUB AV1/2,4
104 YS
105 YM
12 TV/PC
114 OSD B
113 OSD G
112 OSD R
9 MAIN AV1/2/,AV4
10 SUB AV1/2,AV4
LR-BOARD
LR2
1
Q353
Q355
Q356
TPLR1
JK351
8
K
CRT
RED
LG-BOARD
LG1
2
Q363
Q365
Q376
TPLG1
JK361
8
K
CRT
GREEN
LB-BOARD
LB2
1
Q373
Q375
Q376
TPLB1
JK371
8
K
CRT
BLUE
7
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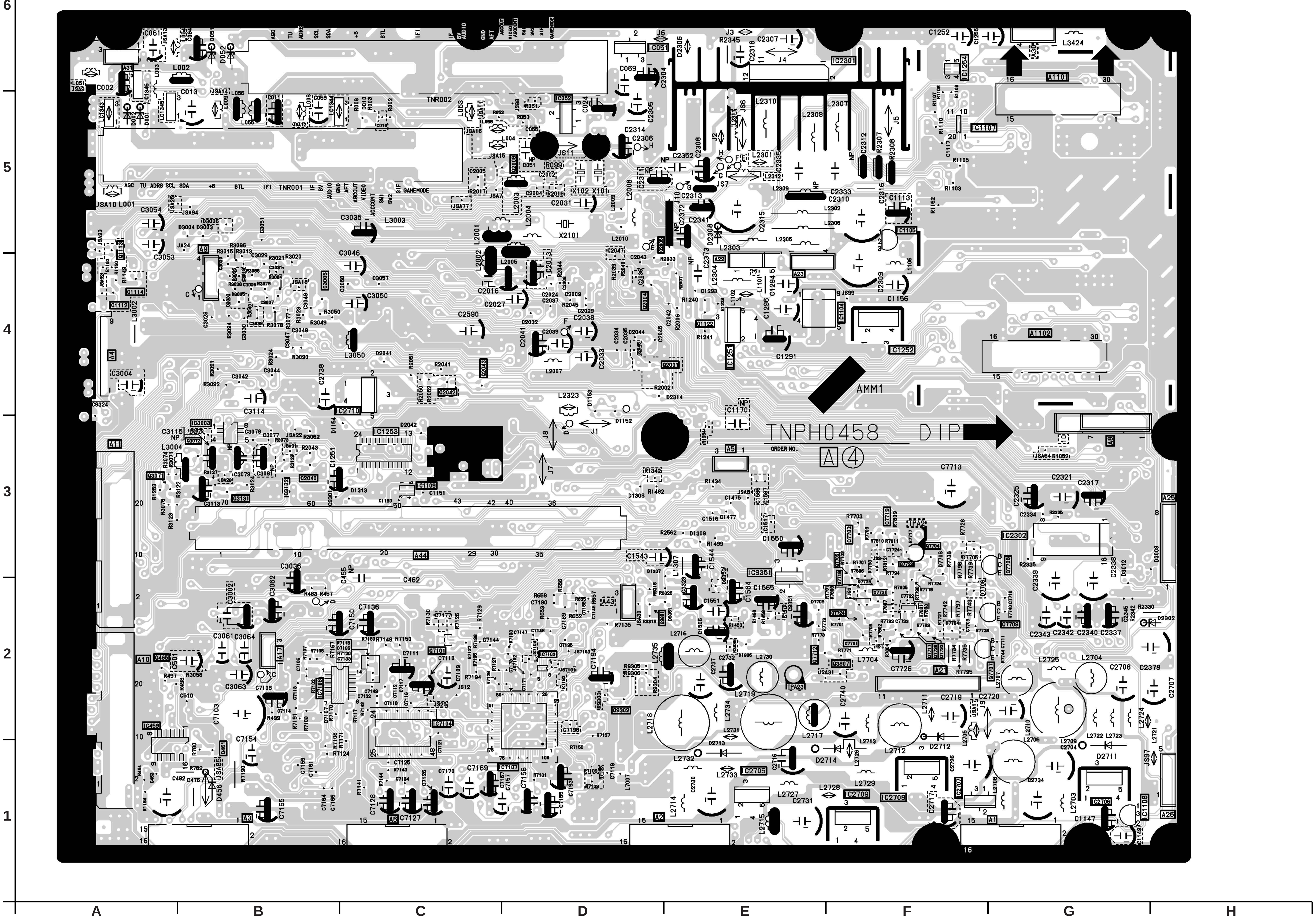
13

A-BOARD (COMPONENT SIDE)
TZTNP020GFV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TNR001
TNR002
AGC
TU
ADRS
SCL
SDA
+B
BTL
IF1
BV
AUDIO
VIDEO
AFT
AGCOUT
SW1
SW2
S IF
GAMEMODE
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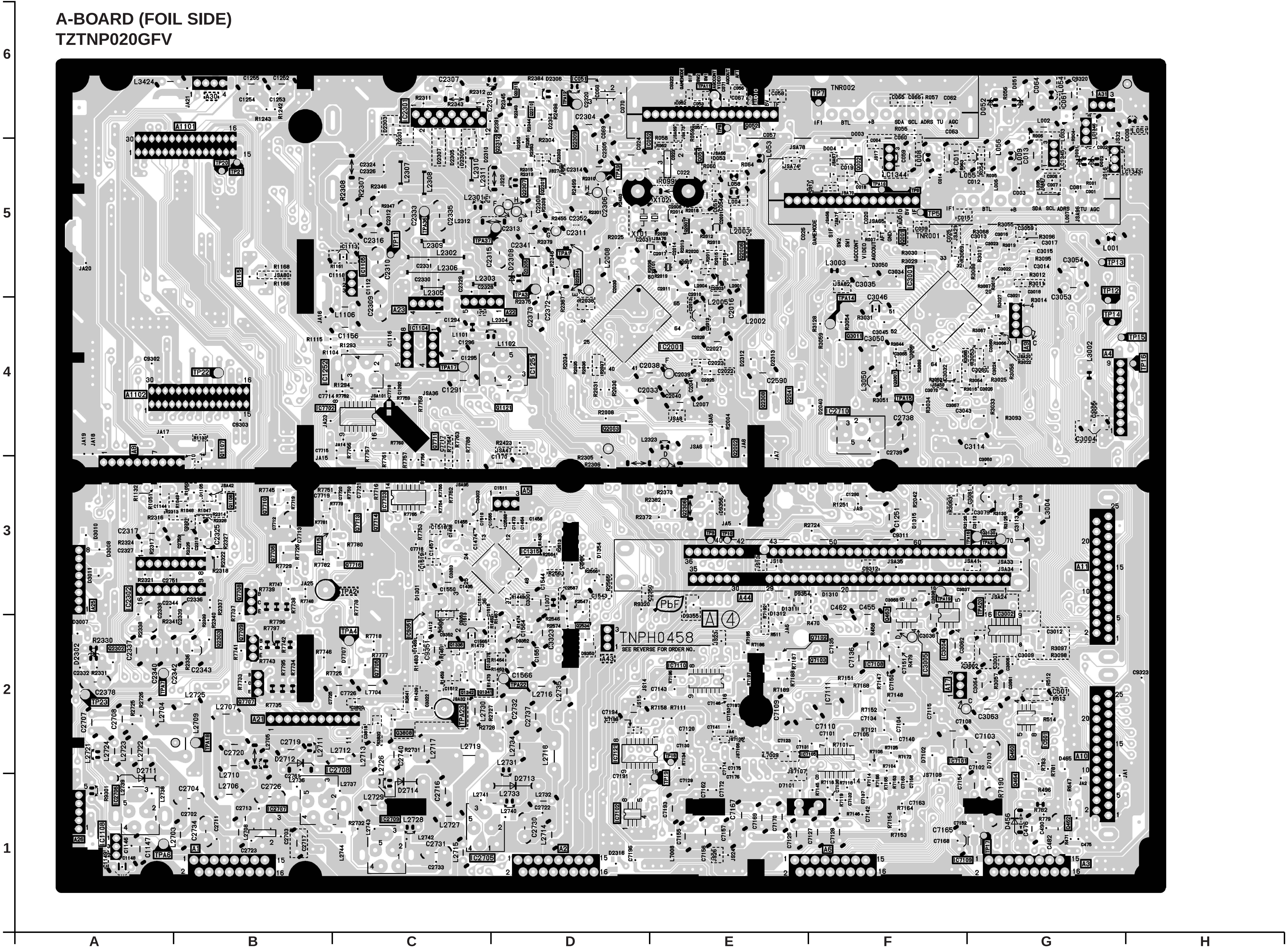
A-BOARD (FOIL SIDE)
TZTNP020GFV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TNPH0458
SEE REVERSE FOR ORDER NO.
PbF
TNR002
TNR001
A1101
A1102
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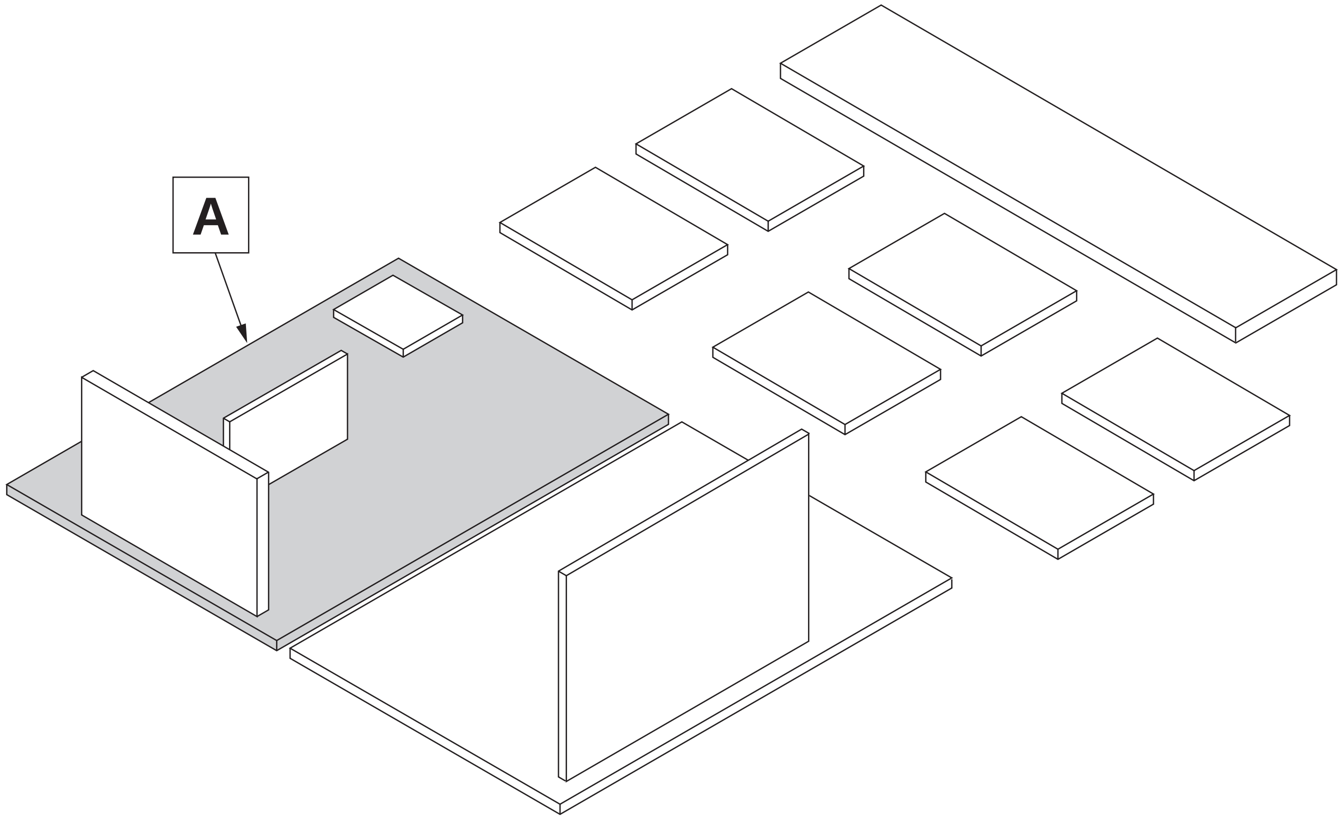
A44



Parts Location

A-BOARD (FOIL SIDE)

IC

IC051	D-6
IC052	E-5
IC501	G-2
IC1104	C-4
IC1105	C-5
IC1108	A-1
IC1251	D-4
IC1252	B-4
IC1315	D-3
IC2001	E-4
IC2301	C-6
IC2302	A-3
IC2705	C-1
IC2706	A-1
IC2707	B-1
IC2708	C-2
IC2709	C-1
IC2710	F-4
IC3001	F-5
IC3002	G-3
IC3004	F-2
IC3005	F-2
IC7101	F-2
IC7102	D-1
IC7105	E-2
IC7108	F-2
IC7109	F-1
IC7110	E-2
IC7121	D-2
IC7702	B-4
IC7703	C-3
IC9351	C-2

TRANSISTOR

Q001	F-5
Q002	F-5
Q051	E-5
Q052	E-6
Q460	G-2
Q462	G-1
Q463	F-3
Q1106	B-3
Q1107	B-4
Q1115	B-5
Q1121	D-4
Q1336	C-2
Q1337	C-2
Q1341	C-2
Q1342	C-2
Q2002	E-4
Q2003	D-4
Q2006	E-5
Q2007	E-5
Q2041	E-4
Q2301	D-5
Q2302	A-2
Q2303	B-2
Q2304	D-5
Q2305	D-4
Q2306	E-3
Q2307	D-5
Q2308	E-4
Q2309	D-5
Q2310	D-6
Q2311	D-6
Q2312	D-5
Q2534	D-2
Q3007	F-4
Q3011	F-4
Q3130	G-3
Q3808	C-2
Q7102	E-2
Q7103	E-2
Q7705	C-2
Q7706	B-3
Q7707	B-2
Q7708	B-3
Q7709	B-2
Q7710	B-3
Q7711	C-4
Q7713	C-3
Q7714	C-3
Q7715	B-3
Q7716	C-3

TP

TP5	F-5
TP6	F-5
TP7	F-6
TP8	E-6
TP9	E-3
TP10	E-3
TP11	C-5
TP12	G-5
TP13	G-5
TP14	G-4
TP15	H-4
TP16	H-4
TP17	G-1
TP18	E-2
TP19	E-1
TP20	B-5
TP21	B-5
TP22	B-4
TP23	A-2

TPA

TPA1	D-5
TPA2	C-3
TPA3	D-5
TPA6	A-1
TPA7	A-2
TPA9	D-5
TPA10	F-5
TPA11	E-6
TPA12	D-6
TPA13	D-5
TPA14	F-5
TPA15	F-4
TPA15	G-3
TPA17	C-4
TPA18	B-2
TPA19	,e-3
TPA20	G-3
TPA21	G-3
TPA22	D-2
TPA23	C-2
TPA36	C-5
TPA37	C-5

Parts Location

A-BOARD (COMPONENT SIDE)

IC

IC051	D-6
IC052	D-5
IC459	A-2
IC1104	F-4
IC1105	F-5
IC1107	F-5
IC1108	G-1
IC1109	C-3
IC1251	E-4
IC1252	F-4
IC1253	C-3
IC1254	F-6
IC2301	F-6
IC2302	G-3
IC2705	E-1
IC2706	G-1
IC2707	F-1
IC2708	F-1
IC2709	F-1
IC2710	C-4
IC3003	B-3
IC7103	D-2
IC7104	C-2
IC7106	B-2
IC7107	D-1
IC9351	E-3

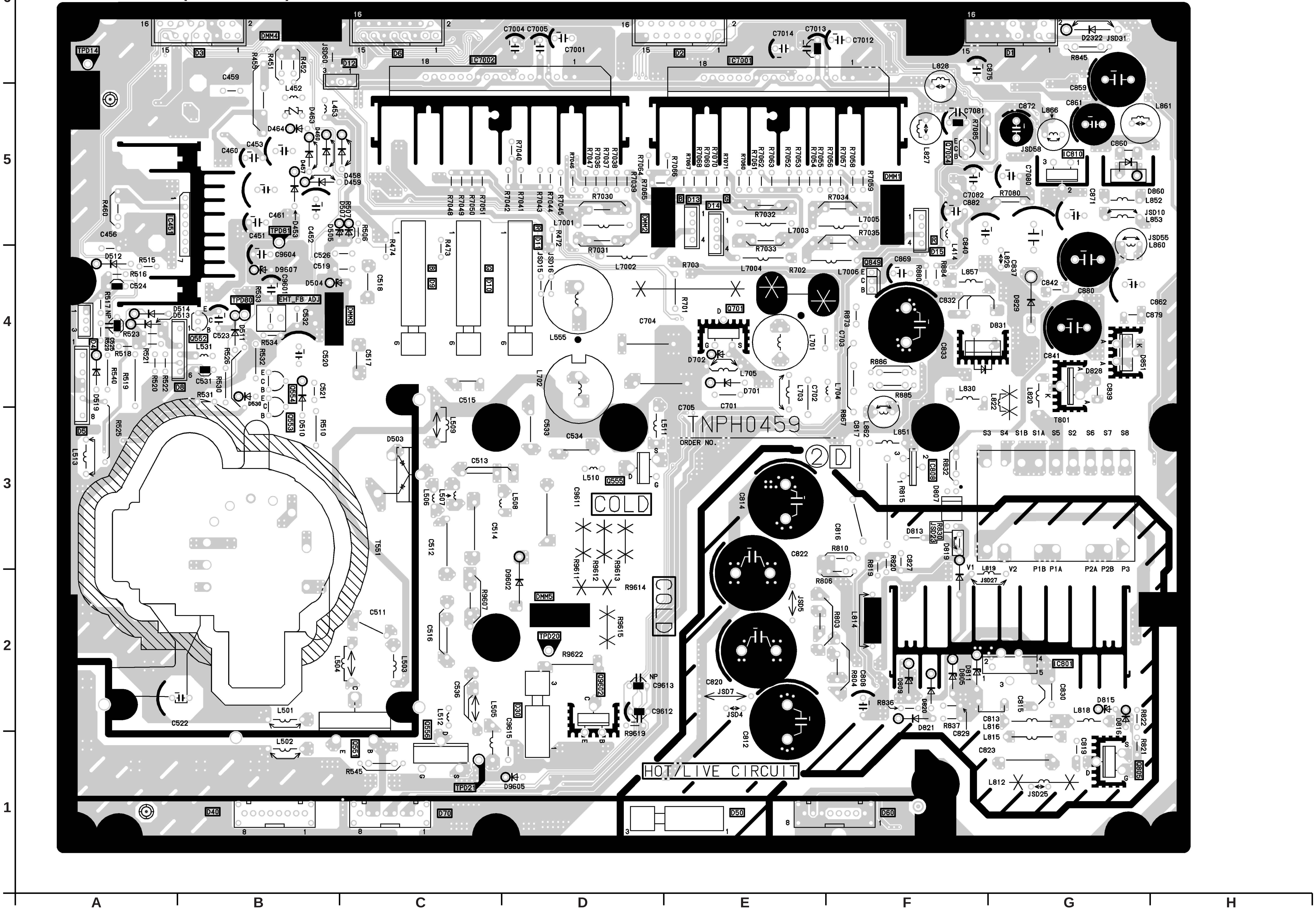
TRANSISTOR

Q461	B-1
Q1112	A-4
Q1113	A-5
Q1114	A-4
Q1122	E-4
Q2001	E-4
Q2004	D-4
Q2005	D-5
Q2008	D-5
Q2040	B-3
Q2042	C-4
Q2043	C-4
Q3006	B-4
Q3071	A-3
Q3072	B-3
Q3131	B-3
Q3132	B-3
Q3807	F-2
Q7101	C-2
Q7701	F-2
Q7702	F-3
Q7703	F-3
Q7704	F-3
Q7707	G-2
Q7708	G-3
Q7709	G-2
Q7712	E-2
Q7717	F-2
Q7718	F-3
Q7719	F-3
Q7720	F-2
Q7721	F-2
Q7722	F-3
Q7723	F-2
Q7724	F-2
Q7725	F-2
Q9301	D-2
Q9302	D-2

TPA

TPA2	F-3
TPA23	E-2

D-BOARD (FOIL SIDE)
TZTNP010GFV (TX-47P500HQ/HM)
TZTNP010GHV (TX-47P500HZ)
TZTNP010GJV (TX-47P500X)



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TNPH0459
ORDER NO.
2D
COLD
COLD
HOT/LIVE CIRCUIT
EHT_FB_ADJ
D1
D2
D3
D5
D6
D8
D40
D50
D60
D70
D12
D13
D14
D15
DMM1
DMM2
DMM3
DMM4
DMM5
IC7001
IC7002
IC801
IC810
IC451
T551
T801
TPD14
TPD20
TPD21
TPD80
TPD81
Q551
Q552
Q553
Q554
Q555
Q556
Q701
Q805
Q849
Q9602
L555
L701
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C7004
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S8
V1
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P1B
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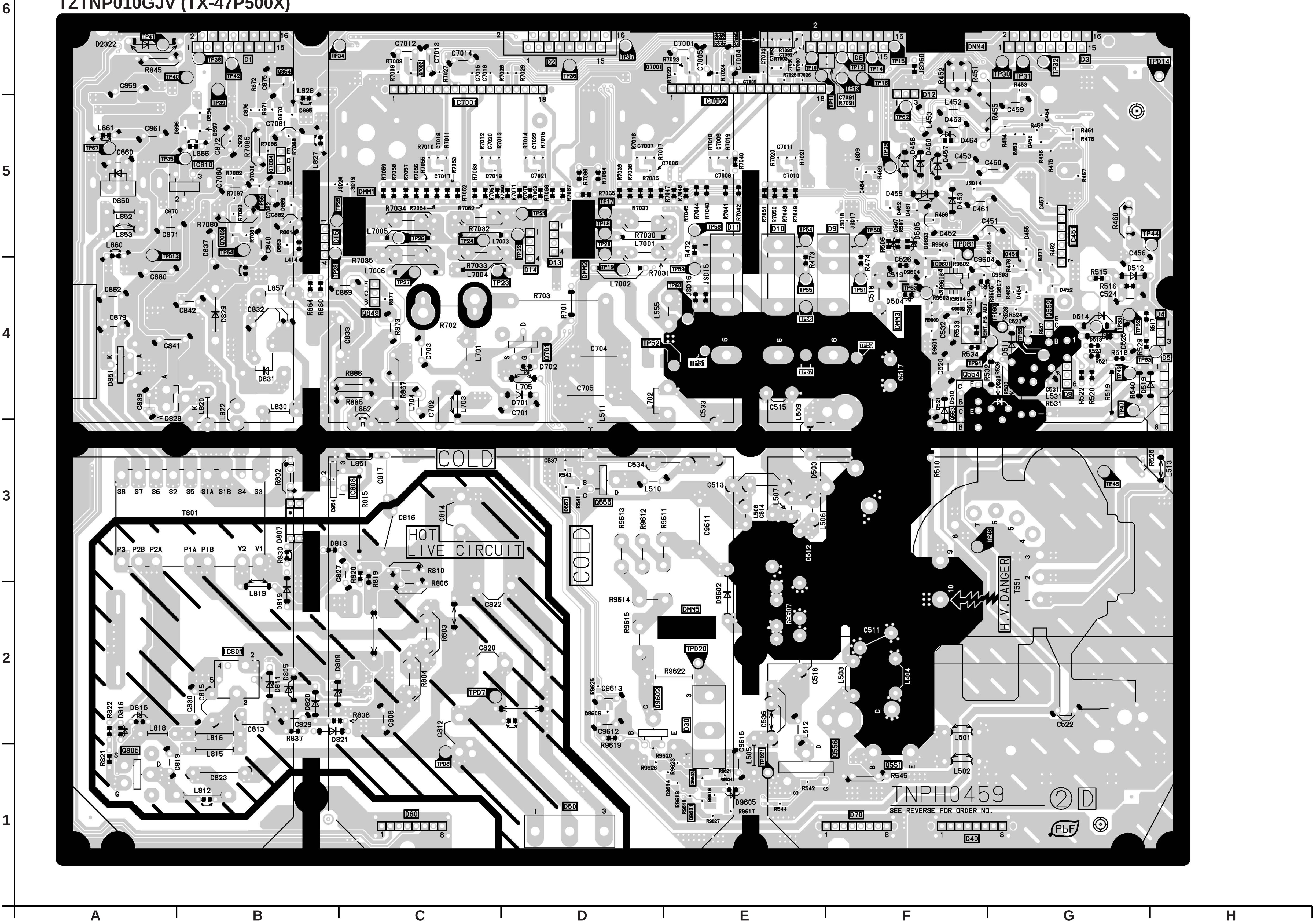
P2A
P2B
P3

D-BOARD (FOIL SIDE)
TZTNP010GFV (TX-47P500HQ/HM)
TZTNP010GHV (TX-47P500HZ)
TZTNP010GJV (TX-47P500X)



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HOT
LIVE CIRCUIT
COLD
H.V. DANGER
TNPH0459
②D
SEE REVERSE FOR ORDER NO.
PbF
D1
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D50
D60
D70
DMM1
DMM2
DMM3
DMM4
DMM5
IC7001
IC7002
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IC810
T801
T551
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R702
R701
C703
C704
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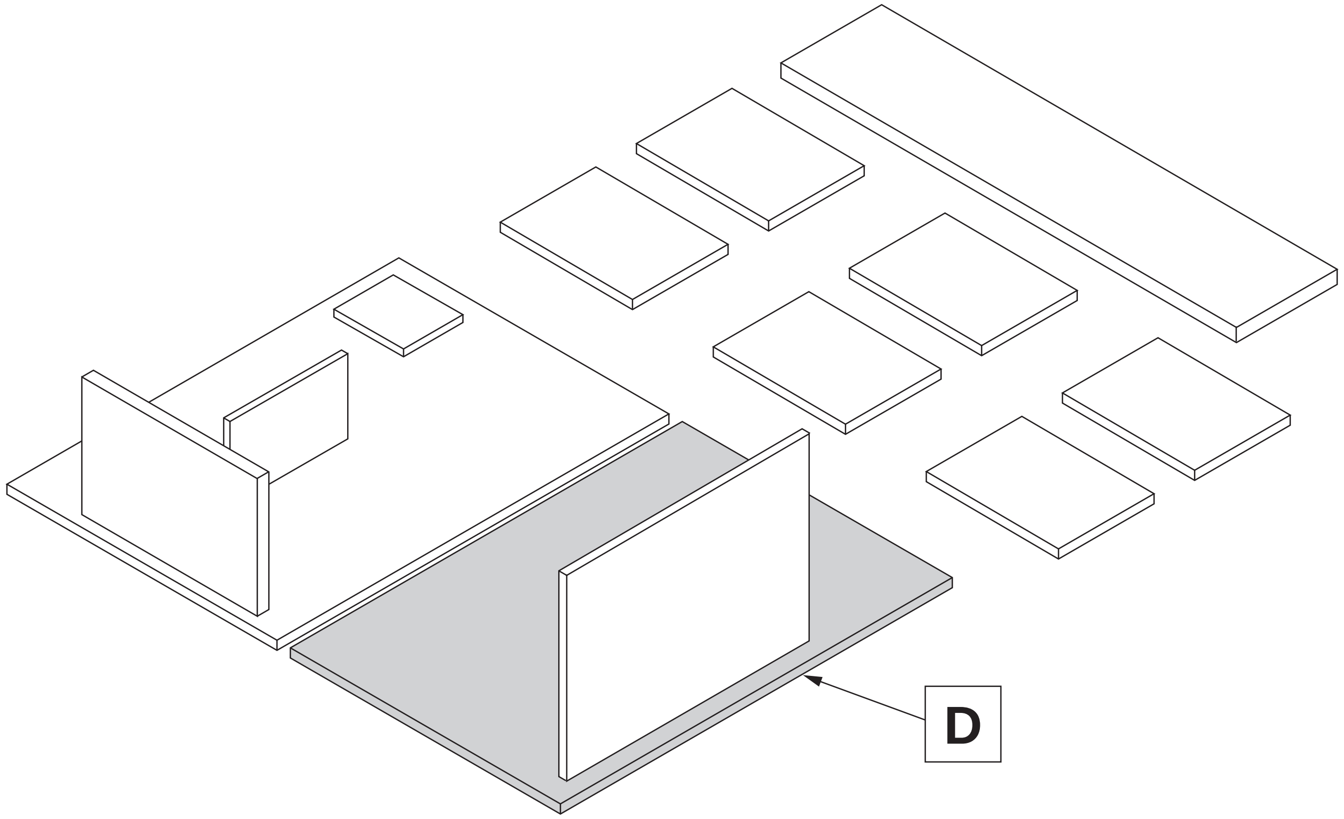

Parts Location

D-BOARD (FOIL SIDE)

IC	
IC451	G-5
IC801	B-2
IC808	C-3
IC810	B-5
IC7001	C-5
IC7002	E-5
IC9601	F-4

TRANSISTOR	
Q451	G-5
Q551	F-1
Q552	G-4
Q553	F-4
Q554	F-4
Q555	D-3
Q556	F-1
Q557	D-3
Q701	D-4
Q805	A-1
Q849	C-4
Q854	B-6
Q7001	D-6
Q7002	C-6
Q7003	B-5
Q7004	B-5
Q9601	E-1
Q9602	D-2
Q9603	E-1

TP	
TP10	E-6
TP11	F-5
TP12	F-6
TP13	F-6
TP14	F-6
TP15	F-6
TP16	F-6
TP17	D-5
TP18	D-5
TP19	D-4
TP20	D-5
TP21	D-5
TP22	D-5
TP23	D-4
TP24	C-5
TP25	C-5
TP26	C-5
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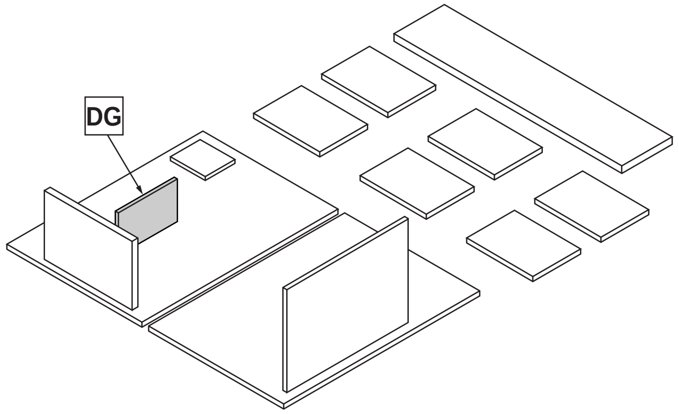
TP28	B-4
TP29	F-5
TP30	G-6
TP31	G-6
TP32	G-6
TP33	G-4
TP34	C-6
TP35	A-5
TP36	D-6
TP37	D-6
TP38	B-6
TP39	B-5
TP40	A-6
TP41	A-6
TP42	B-6
TP43	G-4
TP44	H-5
TP45	G-3
TP46	G-3
TP47	G-4
TP50	F-5
TP51	F-4
TP52	D-4
TP53	F-4
TP54	E-5
TP55	E-4
TP56	E-4
TP57	E-4
TP58	E-5
TP59	E-4
TP60	E-4
TP61	E-4
TP62	F-5
TP63	F-4
TP64	B-5
TP66	B-5
TP67	A-5
TP82	G-4
TP83	G-4
TP84	F-4
TP85	G-4

TPD	
TPD7	C-2
TPD8	C-1
TPD13	A-4
TPD14	H-6
TPD20	E-2
TPD21	E-1
TPD80	G-4
TPD81	F-5

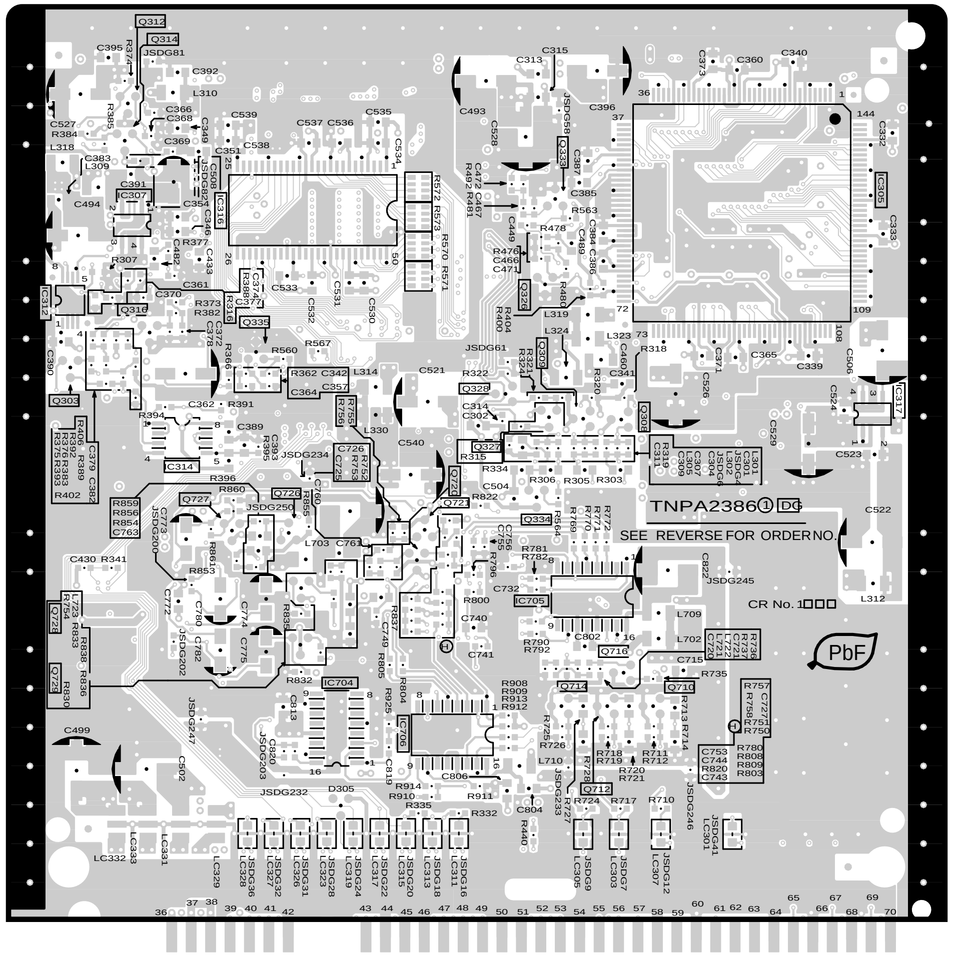
Parts Location

D-BOARD (COMPONENT SIDE)

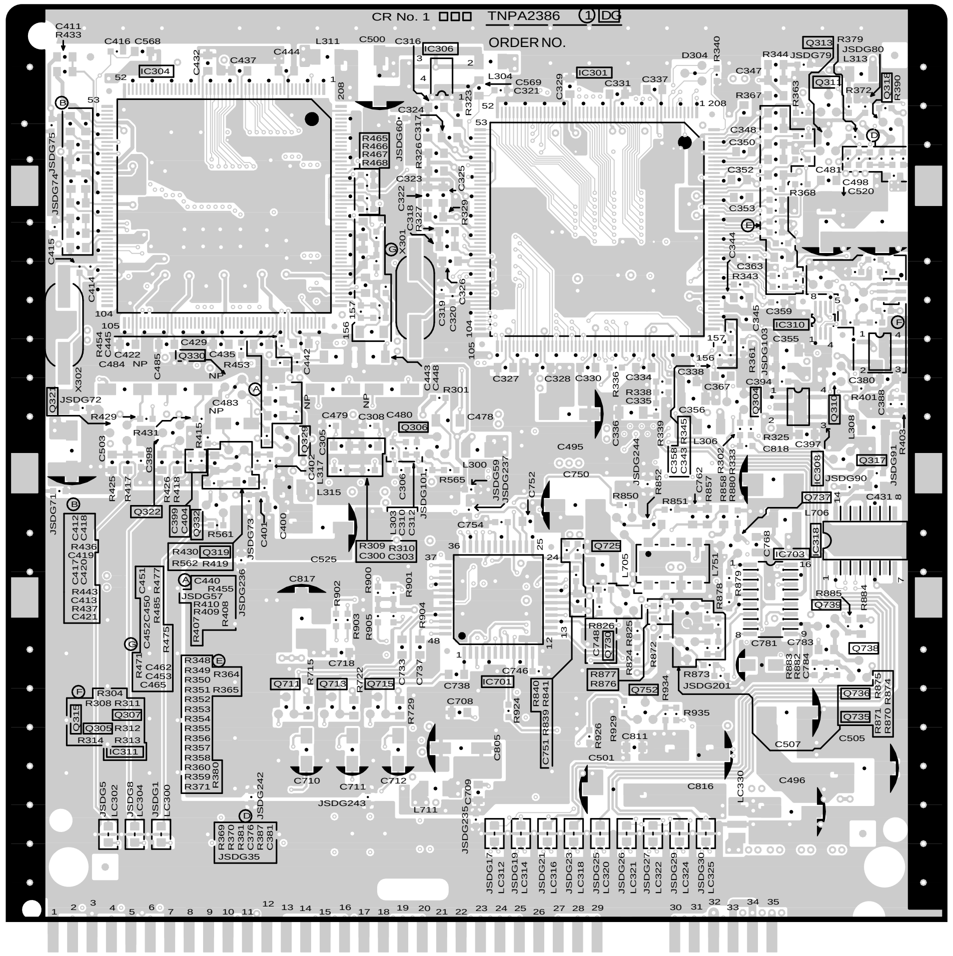
IC		TRANSISTOR		TPD	
IC451	A-5	Q551	C-1	TPD14	A-6
IC801	G-2	Q552	B-4	TPD20	D-2
IC808	F-3	Q553	B-3	TPD21	C-1
IC810	G-5	Q554	B-4	TPD80	B-4
IC7001	E-6	Q555	D-3	TPD81	B-5
IC7002	C-6	Q556	C-2		
		Q701	E-4		
		Q805	G-1		
		Q849	F-4		
		Q7004	F-5		
		Q9602	D-2		



DG-BOARD (FOIL SIDE) TXNDG10GFV



DG-BOARD (COMPONENT SIDE) TXNDG10GFV



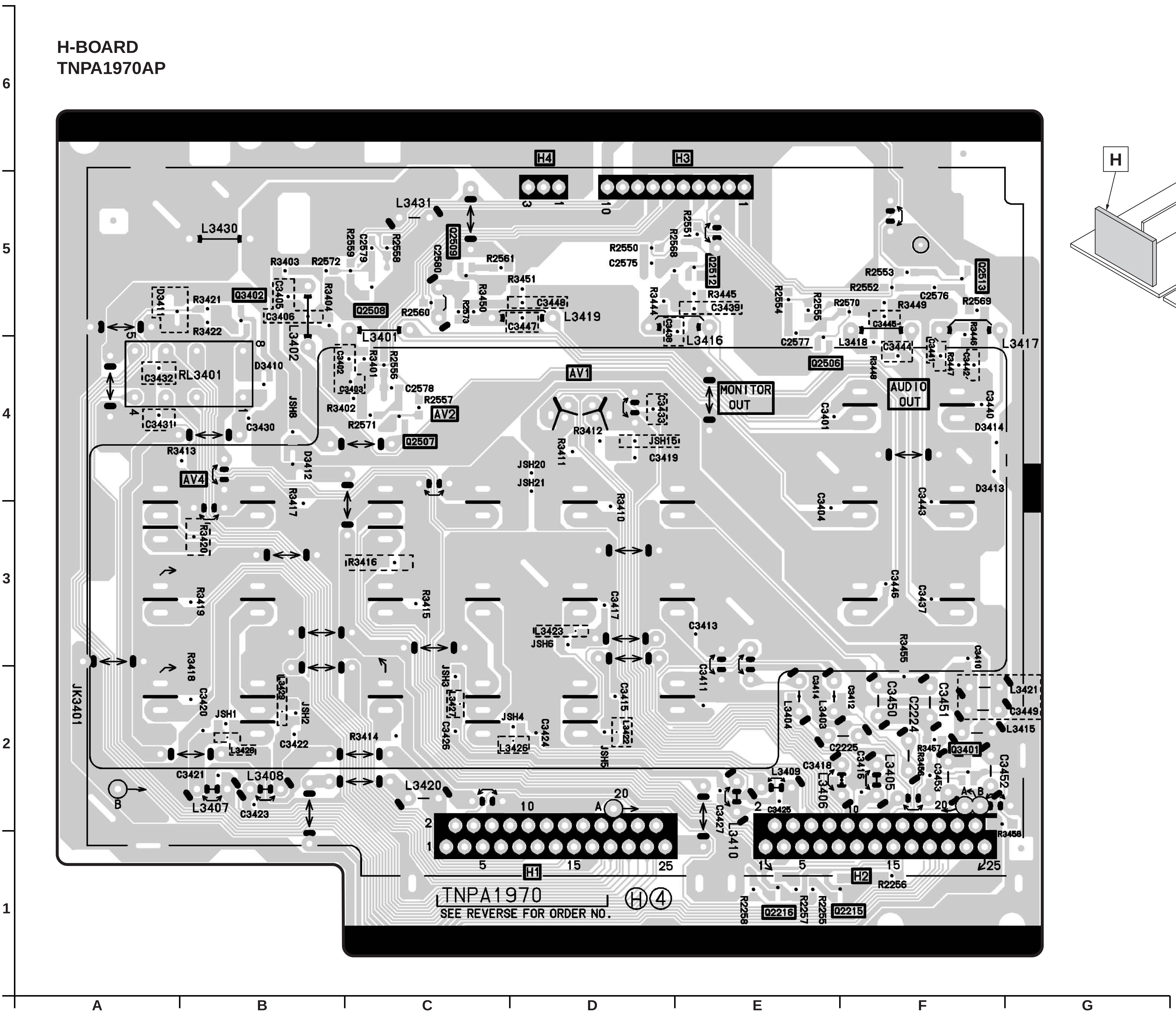
Parts Location

DG-BOARD			
IC		**TRANSISTOR**	
IC1301	F-5	Q1318	G-5
IC1304	D-5	Q1319	E-3
IC1305	C-5	Q1321	D-4
IC1306	E-5	Q1322	D-3
IC1307	A-5	Q1326	B-4
IC1308	G-4	Q1327	B-4
IC1310	G-4	Q1328	B-4
IC1311	D-3	Q1329	E-4
IC1312	A-4	Q1330	E-4
IC1314	A-4	Q1332	E-3
IC1316	A-4	Q1333	B-5
IC1317	D-4	Q1334	B-3
IC1318	G-3	Q1335	A-4
IC1701	F-3	Q1710	C-3
IC1703	G-3	Q1711	E-3
IC1704	B-3	Q1712	C-3
IC1705	B-3	Q1713	E-3
IC1706	B-3	Q1714	B-3
TRANSISTOR		Q1715	E-3
Q1303	A-4	Q1716	C-3
Q1304	F-4	Q1720	B-4
Q1305	D-3	Q1721	B-4
Q1306	E-4	Q1725	F-3
Q1307	D-3	Q1726	B-4
Q1308	C-4	Q1727	A-4
Q1309	B-4	Q1728	A-3
Q1310	G-4	Q1729	A-3
Q1311	G-5	Q1730	F-3
Q1312	A-5	Q1735	G-3
Q1313	G-5	Q1736	G-3
Q1314	A-5	Q1737	G-4
Q1315	D-3	Q1738	G-3
Q1316	A-4	Q1739	G-3
Q1317	G-4	Q1752	F-3

6 5 4 3 2 1

A B C D E F G H I

H-BOARD
TNPA1970AP



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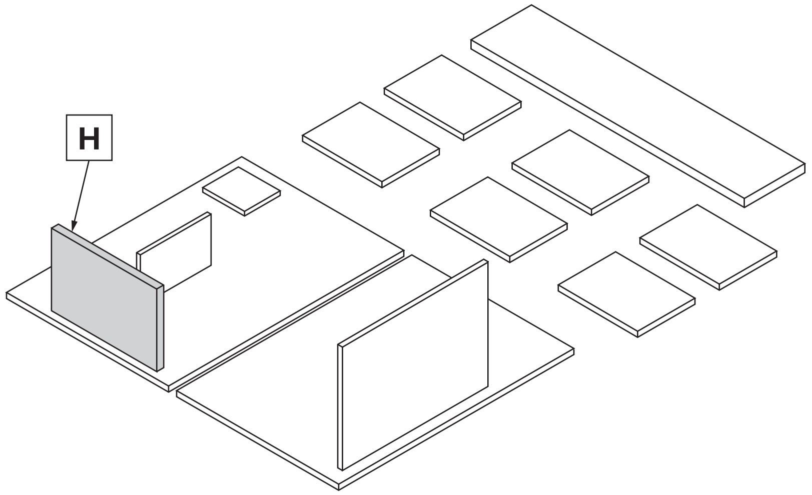
R3413
D3412
R3417
R3412
R3411
JSH20
JSH21
JSH15
C3419
C3433
MONITOR
OUT
AUDIO
OUT
C3401
C3440
D3414
D3413
C3404
C3443
R3410
R3420
R3416
R3419
R3415
C3417
C3446
C3437
C3413
L3423
JSH6
R3455
C3410
R3418
JK3401
C3420
L3429
JSH2
JSH1
L3428
C3422
R3414
JSH3
L3427
C3426
JSH4
C3424
L3426
C3415
C3422
JSH5
C3411
C3414
C3412
L3404
L3403
C3450
C2224
C3451
L3421
C3449
L3415
C2225
C3418
C3416
L3405
R3457
R3456
Q3401
C3453
C3452
L3409
L3406
C3425
C3421
L3408
L3407
C3423
L3420
C3427
L3410
B
A
20
10
2
1
5
15
25
H1
H2
R3458
R2256
R2258
Q2216
R2257
R2255
Q2215
TNPA1970
SEE REVERSE FOR ORDER NO.
H 4



Parts Location

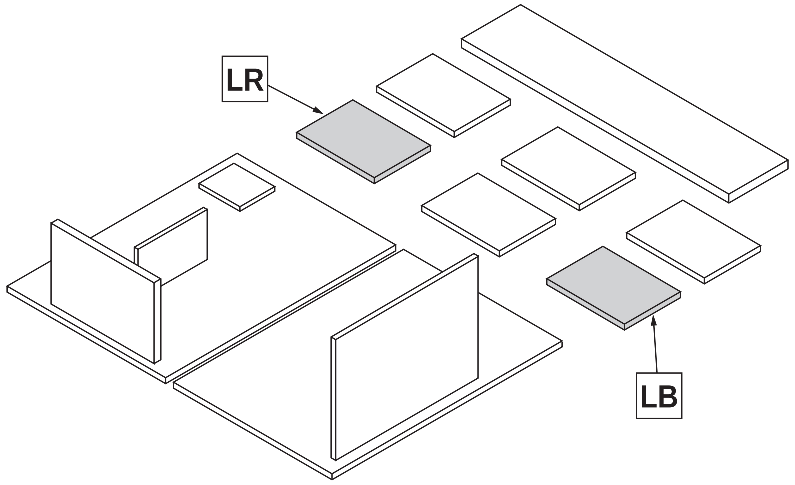
H-BOARD	
TRANSISTOR	
Q2215	F-1
Q2216	E-1
Q2506	E-4
Q2507	C-4
Q2508	C-5
Q2509	C-5
Q2512	E-5
Q2513	F-5
Q3401	F-2
Q3402	B-5

Parts Location

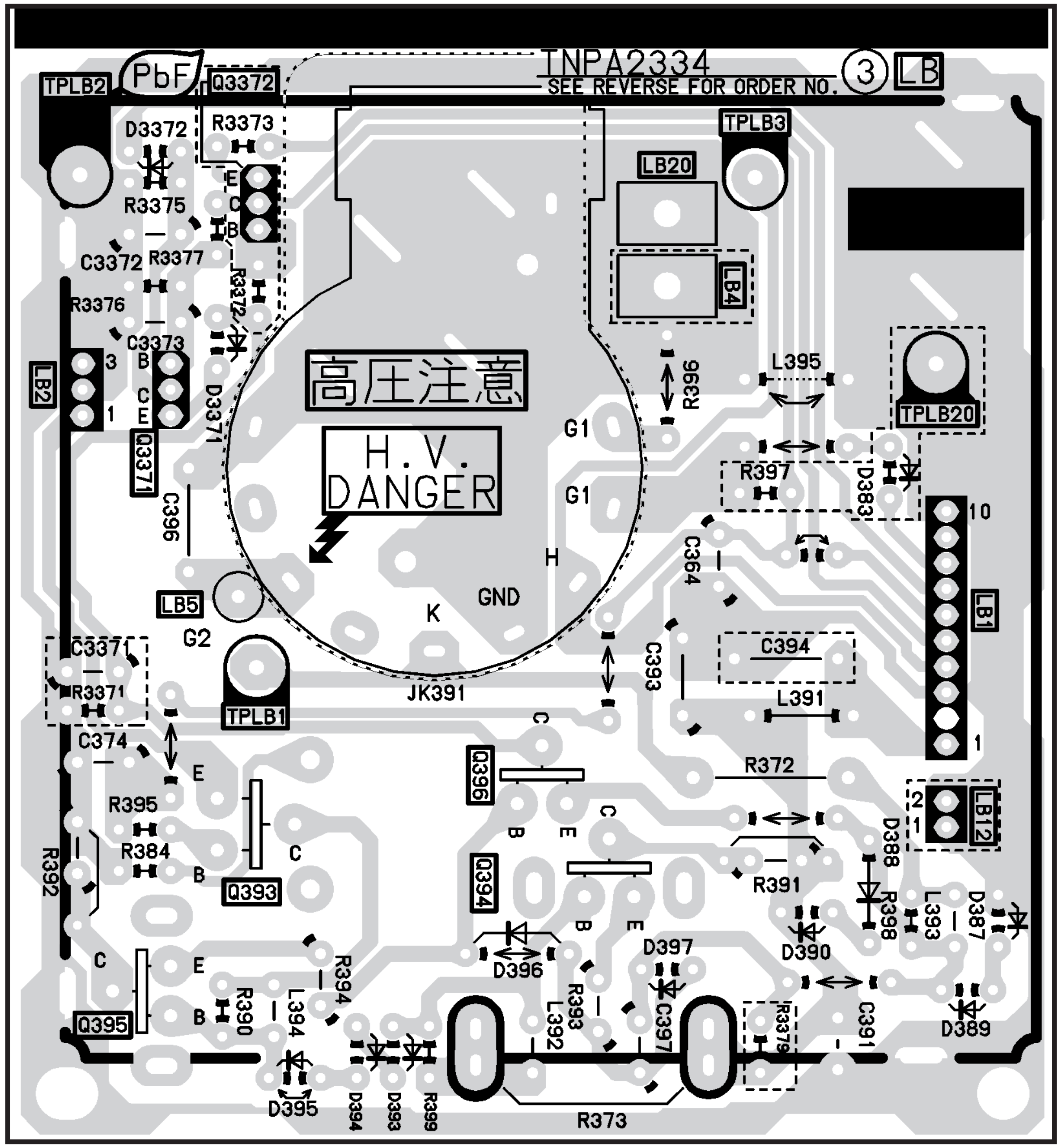
LB-BOARD			
TRANSISTOR		**TPLB**	
Q393	B-2	TPLB1	B-2
Q394	C-2	TPLB2	A-5
Q395	A-1	TPLB3	D-5
Q396	C-2	TPLB20	D-3
Q3371	A-3		
Q3372	B-5		

Parts Location

LR-BOARD			
TRANSISTOR		**TPLR**	
Q353	F-2	TPLR1	F-2
Q354	G-2	TPLR2	E-5
Q355	E-1	TPLR20	I-4
Q356	G-2		
Q3351	F-3		
Q3352	F-5		



LB-BOARD
TNPA2334AD


TNPA2334
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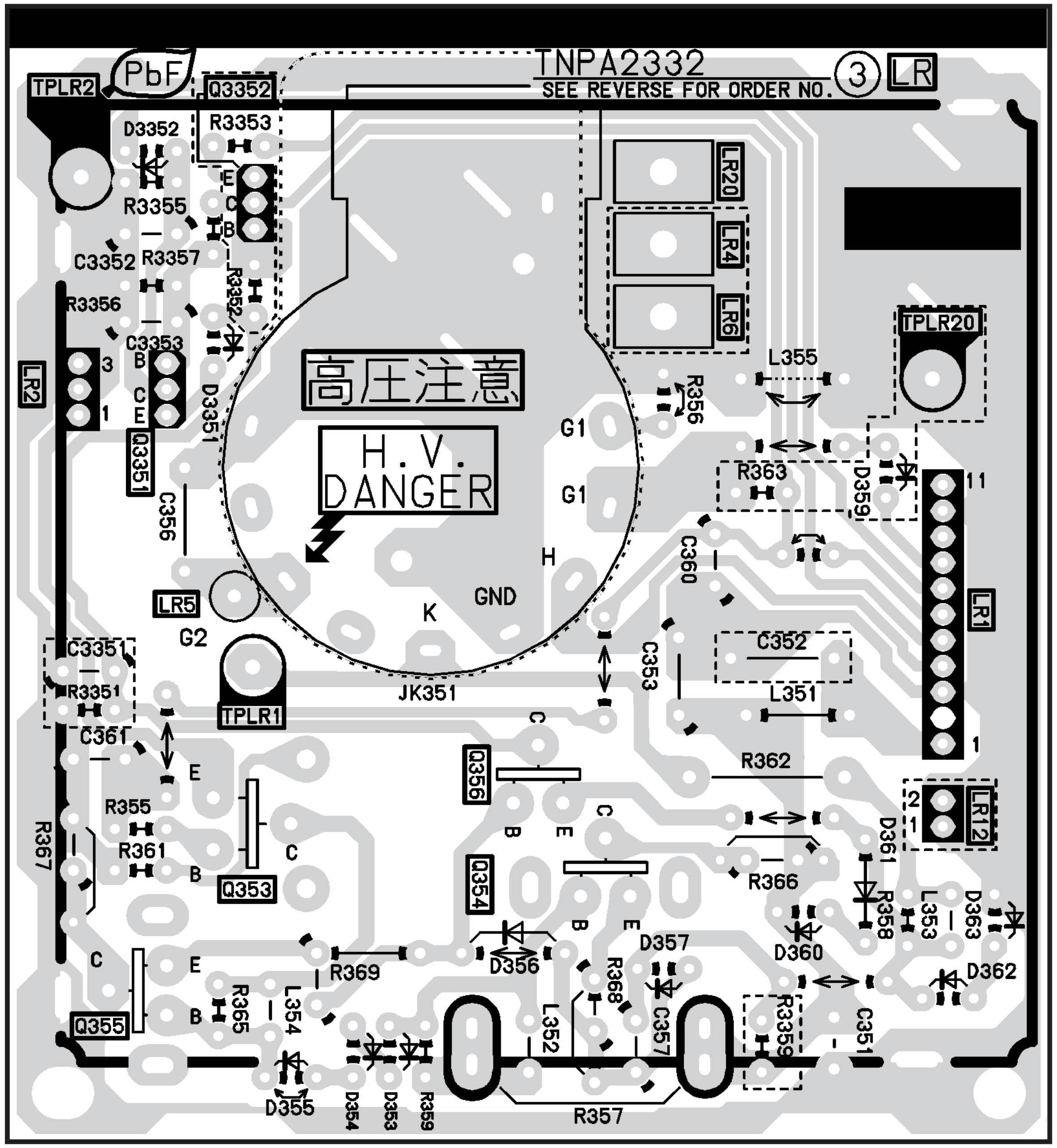
3
LB
PbF
TPLB2
Q3372
D3372
R3373
TPLB3
LB20
R3375
E
C
B
C3372
R3377
LB4
R3372
R3376
C3373
L395
R396
LB2
3
1
B
C
E
D3371
Q3371
高圧注意
H.V.
DANGER
G1
G1
TPLB20
R397
D383
10
C396
C364
H
GND
K
LB5
G2
C394
LB1
C3371
R3371
TPLB1
JK391
C393
L391
C374
C
E
R372
Q396
1
2
LB12
R395
B
E
C
D388
R384
C
B
Q393
R391
Q394
R392
B
E
R398
L393
D387
D390
D397
C
E
D396
B
R394
R390
L394
R393
C397
R3379
C391
D389
Q395
L392
D395
D394
D393
R399
R373

LR-BOARD
TNPA2332AD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SEE REVERSE FOR ORDER NO.
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LR
PbF
TPLR2
Q3352
D3352
R3353
LR20
R3355
E
C
B
C3352
R3357
LR4
R3352
R3356
LR6
C3353
TPLR20
L355
R356
LR2
3
1
B
C
E
D3351
Q3351
高圧注意
H.V.
DANGER
G1
G1
R363
D359
11
C356
C360
H
GND
K
LR5
G2
C352
LR1
C3351
R3351
TPLR1
JK351
C353
L351
C361
C
E
R362
Q356
1
2
LR12
R355
B
E
C
D361
R361
C
B
Q353
R366
Q354
R367
B
E
R358
L353
D363
D360
D357
C
E
D356
R369
B
R365
L354
R368
C357
R3359
C351
D362
Q355
L352
D355
D354
D353
R359
R357

6
5
4
3
2
1

A B C D E F G H I